



The Global Footprint of China's Defense Labs: Contacts and Collaborations with Foreign Institutions



Prepared by BluePath Labs

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Part 1: Introduction

This report and its accompanying data were drawn from a larger dataset compiling information on the People's Republic of China's (PRC) Defense S&T Key Lab (DSTKL) system. Defense S&T Key Labs constitute the PRC's highest-level network of national labs for military research, focusing their work on the PRC's most critical and cutting-edge defense needs. The resulting report, which exhaustively catalogued 56 of these labs, along with their research foci, applications, funding, facilities, collaborations, leadership and key personnel, aliases, and other useful information, was published in 2022. An updated volume, which provides both an additional 42 labs (bringing the total to 98) as well as information on the existing labs, was released in 2025.

In the course of compiling the comprehensive dataset on these labs and their activities, the author incidentally gathered a significant amount of data on contact between Defense S&T Key Labs and foreign institutions and individuals, including universities, companies, and research labs in the U.S., Europe, Australia, Japan, and others. This contact ranged from visits, teaching and training agreements, and conference participation and co-organizing, to research collaborations and long-term institutional cooperation.

Needless to say, such interactions between Western research institutions and PRC military research labs is at the very least problematic, and at most an urgent security concern. While some instances described herein are more troubling than others, even the seemingly less problematic cases provide opportunities for the gathering of valuable technology and knowledge by actors whose main goal is to develop new technologies for the PRC military. This report and its accompanying dataset catalogue 131 instances of contact and/or cooperation between PRC defense labs and foreign institutions, including the nature of contact, which defense labs and foreign institutions were involved, the research topics which may have been covered, and any other problematic PRC military, defense SOE, or research institutes which were also involved.

Within these 131 discrete events, the dataset recorded 713 individual instances of contact or cooperation. Nearly half of these involved foreign institutions either cooperating on, or at least participating in, conferences or events involving PRC defense labs, as well as PRC military, defense conglomerate, or military-affiliated universities. The high level of frequency of such events, as well as the fact that many such events do not seem particularly suspicious at first blush, indicates that conference participation may be an ongoing soft spot that PRC military entities exploit to obtain dual-use technology and knowledge, even as Western governments increasingly crack down on other avenues. U.S. and allied governments should thus heighten their vigilance around conference participation and improve education and awareness amongst academics and researchers.

The second most common form of interaction between PRC defense labs and foreign institutions involved active, long-term cooperation on research, training, and product development, including the establishment of joint research institutions. Subjectively, such collaborations may have tapered off in recent years, but it is unclear to what extent, as the end of such agreements are rarely publicly announced. It is also possible that such agreements have not in fact tapered off but are just less likely to be publicly announced in Chinese media.

While the U.S. had the highest number of interactions, with 204 of the 713 recorded, several other Western countries had higher rates of contact among fewer institutions, including Australia, the U.K., Canada, the Netherlands, and Sweden. Other countries with high numbers of interactions, including Germany, France, Japan, Italy, and Korea, were more evenly dispersed among a larger number of institutions. Singapore was notable for having a high number of interactions among only two institutions, the National University of Singapore (which had the most interactions of any institution), and Nanyang Technological University. Of particular concern, the data revealed numerous interactions with U.S. and foreign military academies, defense companies, and defense research institutions.

Notably, this volume is not intended as a thorough survey into all contact between PRC entities and foreign institutions. To begin, it surveys only one type of PRC entity, the national-level Defense S&T Key Lab system. It is also limited by what data is publicly available, and likely only scratches the surface of all activity. Further, it is important to note that publication of this dataset is not intended to call out or shame any particular institution, nor should it be used as evidence of intentional wrongdoing. In numerous cases, the data relies on PRC sources making claims of cooperation which cannot be independently verified; these cases are made clear where applicable. Rather, this dataset is intended to give an idea of the volume and types of contact that continue to take place between problematic PRC entities and Western institutions, even in an era of heightened vigilance surrounding tech and knowledge transfer, and hopefully provide better guidance to Western government and research institutions hoping to minimize such contact in the future.

PRC Entities in the Data

While the data was focused primarily on interactions with PRC national-level defense labs, many of these interactions also included contact with PRC military institutions subordinate to the People's Liberation Army (PLA), major state-owned military companies, defense research institutions, or defense-affiliated universities. All of these interactions were noted in the data as well.

PLA institutions often included military universities such as the Army, Air Force, and Naval Engineering Universities, as well as the National University of Defense Technology, the PLA's premier research university. This category also included PLA research institutions such as the Academy of Military Sciences, the Naval Research Academy, the China Aerodynamics Research and Development Center (a key player in the PLA's hypersonic vehicle research), and the Beijing Aerospace Flight Control Center (a key player in the PLA's space program). Of course, interaction with PLA entities is the most clearly problematic form of contact, as it involves direct and unambiguous contact with the PRC military. PLA institutions appearing in the data include:

- **Army Academy of Armored Forces (AAAF)**
- **Army Engineering University (AEU)**
- **Air Force Engineering University (AFEU)**

- **Air Force Early Warning College (AFEWC)**
- **Academy of Military Sciences (AMS)**
- **Beijing Aerospace Flight Control Center (BACC)**
- **China Aerodynamics Research and Development Center (CARDC)**
- **Dalian Naval Academy (DNA)**
- **National University of Defense Technology (NUDT)**
- **Naval University of Engineering (NEU)**
- **PLA General Hospital**
- **PLA Center for Disease Control (PLACDC)**
- **People's Police University (PPU)ⁱ**
- **Rocket Force Research Academy (RFRA)**
- **Space Engineering University (SEU)**
- **PLA Strategic Support Force (SSF)ⁱⁱ**

Second, the data includes a range of state-owned military conglomerates, government research institutions, and defense industry professional associations, which are grouped together under the heading of “Industry/Research Institutes (RI).” These include members of the “Big Nine” defense conglomerates, other companies of concern such as Huawei and ZTE, government organs such as the State Administration of Science, Technology and Industry for National Defense (SASTIND), research institutes such as the China Academy of Engineering Physics (CAEP), and industry organizations such as the China Command and Control Society. Institutions appearing in the data are as follows:

- **Aero Engine Corporation of China (AECC):** one of the “Big Nine” state-owned military conglomerates, responsible for developing the PRC’s military aircraft engines.
- **Aviation Industry Corporation of China (AVIC):** one of the “Big Nine” state-owned military conglomerates, responsible for developing virtually all of the PRC’s military aircraft and helicopters, and many of its drones, missiles, and other aviation equipment.
- **China Academy of Engineering Physics (CAEP):** government research institution tasked with development of the PRC’s nuclear weapons program.
- **Chinese Academy of Sciences (CAS):** the PRC’s largest government research organization, overseeing over 100 subordinate scientific research institutes. CAS institutes cited in the dataset include entities implicated in military research, such as the **Institute of Automation (IA)**, **Institute of Semiconductors (IS)**, **Changchun Institute of Optics, Fine Mechanics and Physics (CIOMPF)**, and the **Suzhou Institute of Nano-tech and Nano-bionics (SINN)**.

ⁱ This organization is not subordinate to the PLA, but included as a problematic entity under the PRC’s security establishment.

ⁱⁱ This organization was broken up into three smaller arms in 2024.

- **China Aerospace Science and Industry Corporation (CASIC):** one of the “Big Nine” state-owned military conglomerates, responsible for PRC aerospace efforts, including missiles, satellites, and launch vehicles
- **China Aerospace Science and Technology Corporation (CASC):** one of the “Big Nine” state-owned military conglomerates, responsible for PRC aerospace efforts, including missiles, satellites, and launch vehicles
- **China Ordnance Society:** industry organization for the PRC’s armaments sector managed by defense conglomerate Norinco.
- **China Command and Control Society:** industry organization for companies, institutions, and researchers involved in the PRC’s Command and Control field.
- **Commercial Aircraft Corporation of China (COMAC):** PRC state-owned aviation conglomerate.
- **China National Nuclear Corporation (CNNC):** one of the “Big Nine” state-owned military conglomerates, involved in PRC nuclear energy and weapons programs.
- **China State Shipbuilding Corporation (CSSC):** one of the “Big Nine” state-owned military conglomerates, responsible for construction of basically all PLA Navy vessels.
- **Huawei:** PRC telecommunications corporation sanctioned by the U.S. government.
- **Norinco:** one of the “Big Nine” state-owned military conglomerates, responsible for construction of military vehicles and munitions.
- **State Administration of Science, Technology and Industry for National Defense (SASTIND):** PRC government organ responsible for overseeing all defense industry and research activities.
- **ZTE:** PRC telecommunications corporation sanctioned by the U.S. government.

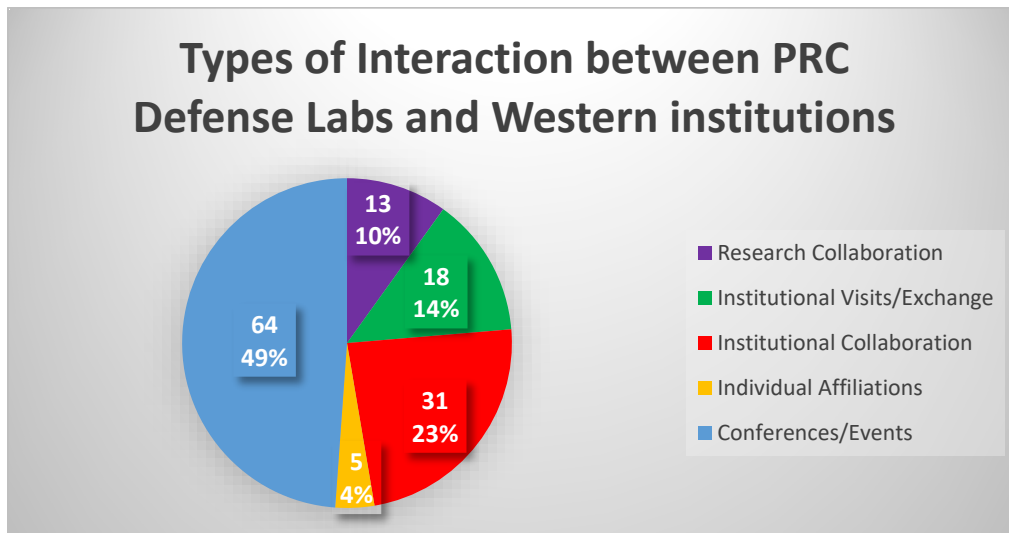
Finally, the data lists interactions with the so-called Seven Sons of National Defense [国防七子], a consortium of seven PRC universities which are directly managed by SASTIND, the PRC’s supreme authority concerned with the defense industrial base and defense research. While they are civilian universities, they make up a disproportionate share of defense research and the defense workforce, and their *raison d’etre* is fundamentally military in nature. All of these universities are blacklisted by the U.S. Department of Commerce Bureau of Industry and Security (BIS), and any interaction with them should be carefully scrutinized. While these are by no means the only universities in the PRC with close links to the military and defense establishment, their participation in any sort of interaction is a strong indicator that the fruits of that interaction will be put to military use. These universities are as follows:

- **Beihang University**
- **Beijing Institute of Technology (BIT)**
- **Harbin Engineering University (HEU)**
- **Harbin Institute of Technology (HIT)**
- **Nanjing University of Aeronautics and Astronautics (NUAA)**

- **Nanjing University of Science and Technology (NUST)**
- **Northwestern Polytechnical University (NWPU)**

What Does the Data Show?

The data in this report covers roughly the last decade (2015-2025), including interactions that began before 2015 but may have continued into this report's time span. In many cases, it is impossible to say whether an instance of collaboration has ended or continues to the present day; in these cases, the data indicates that the collaboration may be ongoing. Further, the dataset primarily focused on the U.S. and its allies, in order to highlight potentially problematic contact and cooperation. However, PRC defense lab interactions with some PRC-aligned states, such as Russia and Iran, were also included, as some researchers might also find this information beneficial.



In total, the dataset included 131 discrete instances of contact between Defense S&T Key Labs and foreign institutions or individuals, covering 427 different institutions. These interactions took five primary forms: Conferences, Individual Affiliations, Institutional Collaborations, Institutional Visits or Exchanges, and Research Collaborations.

The data showed that interactions involving conferences or professional events—whether through sponsoring, co-organizing, serving on research or technical committees, or simply co-participation—were by far the most common means of contact between PRC defense labs and Western institutions, constituting nearly half of all interactions. The high rate of conference-related contact in the data could in part be explained by the fact that conferences tend to be public-facing and well-publicized, and thus more likely to be discovered in open-source research and included in the dataset. Conference organizers want their events to be well attended and have an interest in promoting the prestige and importance of their events within their fields. However, the very high number of conference-related interactions does reveal a potential soft spot in Western efforts to limit knowledge transfer to PRC military research entities that may have been overlooked to this point.

Conferences and related events appearing in the data range widely in both topics and level of foreign participation. At one extreme are events that are potentially problematic but not clearly so, featuring possible dual-use research and some participation by PRC defense SOEs or universities with connections to the defense establishment. At the other extreme are events that are explicitly devoted to military or clearly dual-use topics, featuring a high level of participation by the PRC military and defense research establishment.

A prime example of the latter extreme is the International Conference on Defence Technology [国际防务技术大会], held every two years since 2018, most recently in 2024. This conference is co-organized by a group of PRC defense companies and a British researcher from the Imperial College London. It has featured heavy participation from PRC military and defense industry officials and researchers, including the PLA National University of Defense Technology, the PLA Army and Navy Engineering Universities, munitions and military vehicle manufacturer Norinco, and the China Academy of Engineering Physics, the PRC's primary nuclear weapons research organization. Despite the fact that the organizers explicitly state that the conference's goal is to advance the PRC's defense industry, multiple Western researchers from prominent universities and defense companies have come to give lectures to the audience of primarily PRC military-industrial complex officials, including on topics such as armor and armor-piercing munitions, rocket propulsion, UAVs, and military materials.ⁱⁱⁱ

Most conferences, however, are more subtle than this. For example, the 2022 Forum of the Global Power & Propulsion Society was held in Zurich, but was sponsored by at least one PRC Defense S&T Key Lab (dropping the "defense" part of its name in English), alongside PRC military conglomerates AECC and CASIC. Western researchers came from organizations such as Airbus, GE, Safran, and Pratt & Whitney, among many others. The conference was publicly dedicated to developing cleaner aircraft engines for civil aviation, and materials for the event give no indication of an interest in military research. However, the fact that it was hosted by at least three entities dedicated to developing military aerospace propulsion strongly suggests that any insights gathered on better or more efficient aircraft engines would be put to use for military as well as civil aero-engine development.

Levels of Western input and participation also vary; while some events involve Western researchers merely showing up as participants, others feature Western researchers playing a far more high-level role in the event, serving as keynote speakers, organizers, sponsors, or committee members. While the latter is more immediately concerning and involves greater risk of close interaction with PRC defense researchers and divulging of sensitive information, the former is also not without its problems. Often unaware of the military connections of their PRC colleagues, who will sometimes use alternative and less military-sounding English translations of their institutions' names, Western researchers can easily wind up sharing sensitive or dual-use research. According

ⁱⁱⁱ This conference is covered in more detail in the author's article for *China Brief*: Matthew Bruzzese, "PRC Transfer of Military and Dual-Use Technology: the Case of the International Conference on Defence Technology," *China Brief*, 7 June 2024, <https://jamestown.org/program/prc-transfer-of-military-and-dual-use-technology-the-case-of-the-international-conference-on-defense-technology/>

to one account, simply paying for these researchers' trips, where they are wined and dined lavishly, can create a feeling of obligation in Western researchers when their PRC colleagues start asking probing but seemingly innocent questions about their work.¹

In some of the instances described in the dataset, a conference will be labeled as “International” in the title, but further investigation reveals that the organizers and participants are entirely from the PRC, and the “international” component appears to be limited to a single Western expert giving the keynote address on his or her research to a room full of PRC military-affiliated researchers. For example, the 2022 and 2024 iterations of the “International Conference on Guidance, Navigation and Control” [国际制导、导航与控制学术会议] were organized by PLA and PLA-affiliated entities, such as the National University of Defense Technology and Harbin Engineering University. Despite advertising itself as an international conference, there is no evidence of non-PRC participation, save for a single Western speaker (from the U.K. in 2022 and France in 2024).² The audience for both conferences was heavily comprised of personnel from both the Seven Sons of National Defense and military conglomerates such as AVIC, Norinco, CASC, and CSSC. While it is impossible to say whether examples such as this are a deliberate attempt at knowledge transfer or simply a conference which did not excite much international enthusiasm, the frequency of these cases and the heavy participation of the military industrial complex suggests ulterior motives.

Institutional collaborations, including long-term partnerships and joint research agreements, construction of joint labs, and mutual study and training agreements, were the second most common form of contact between PRC defense labs and Western institutions, making up nearly one-quarter of interactions. Subjectively, these may be the most immediately concerning category, as many of the examples in the dataset constitute long-term active collaboration with elements of the PRC military-industrial complex. Examples include:

- A major research institute under military aviation conglomerate AVIC forming a joint venture with U.S. company Honeywell to develop aircraft control systems.
- A PRC defense lab establishing a joint innovation base to research complex aviation flows and control with multiple U.S. and European universities, including UC Irvine and Oxford University.
- A PRC military communications lab claiming to have established joint study and training programs between itself and several U.S. and European universities, including Columbia and Princeton in the U.S., and a joint research lab with U.S. company Cisco.
- An academic department which manages a military aerospace lab under Beihang University, one of the Seven Sons, claiming to have partnerships with universities such as Princeton, Purdue, UConn, Georgia Institute of Technology, Oxford, and Ecole Centrale. The same Department also claims to have established a joint team to research combustion science with Purdue University.
- A PRC military communications and radar lab claiming to have cooperative relationships with the University of California, University of Texas, Ohio State University, University

of Pennsylvania, MIT, and University of Houston, as well as similar agreements with multiple Canadian and European universities.

- A PRC military communications lab claiming to have cooperated with companies such as Intel, Siemens, Nokia, DoCoMo, National Semiconductor, Philips, France Telecom, LG, and STMicroelectronics.
- A PRC military materials research institute claiming to have an overseas joint lab with Harvard University, as well as long-term cooperation with Stanford, Northwestern University, University of Sydney in Australia, and University of Bristol in the U.K.
- A PRC military helicopter lab claiming to have established joint helicopter research centers with both the University of Glasgow and University of Nottingham in the U.K.
- A PRC military propulsion lab claiming to have established a joint rocket propulsion lab with Sapienza University of Rome.
- Personnel of a PRC military aerospace lab having affiliations with the Sino-British Joint Laboratory of Advanced Control System Technology.
- A PRC military radar lab establishing a joint research base to research radar cognitive detection and image recognition with Syracuse University.

Various types of visits and exchanges between PRC defense labs and Western institutions, including delegations, lectures given by Western researchers, or short-term study, were the third most common form of interaction, at 14 percent. Notable examples included:

- A professor who has participated in projects funded by the U.S. Air Force Research Laboratory and Army Research Laboratory giving lectures at a PRC military radar lab affiliated with the state-owned electronics conglomerate CETC.
- A lecture on electrothermal weapon ignition systems by an employee of the U.K. defense company Qinetiq.
- A lecture on new infrared and thermal imaging technologies to personnel of a PRC military materials lab given by a researcher from the French National Glass and Ceramics Lab.
- A lecture by personnel of the Swiss company Kistler on the company's sensor technology to a PLA Navy acoustics lab.
- A lecture by a researcher from Bell Labs to a PRC military radar lab on recent advances in compressive sensing.
- Lectures by researchers from the University of North Carolina and George Mason University to a PRC underwater acoustics lab.
- Personnel of the Dutch company Avantes visiting a PRC defense lab to discuss their company's spectrometer design.

This category also included examples of official delegations discussing further long-term cooperation, including:

- A visit from a delegation affiliated with a PRC military maritime company visiting UC Merced and discussing prospects for future cooperation.

- A delegation from the University of Brighton in the U.K. discussing R&D cooperation with a PLA Army manufacturing lab.
- A researcher from the German Ludwig Maximilians-Munich University, who was part of the research team behind the world's first attosecond laser, visiting a PRC military materials lab and discussing the establishment of a joint surface engineering lab between the two institutions.

Another form of exchange was in short-term study and training, including:

- A PLA aerospace lab claiming to have sent multiple grad students for further training at institutions such as MIT, University of Chicago, and other U.S. and European universities.
- Personnel from a PLA equipment lab allegedly studying in the U.S. and U.K. in recent years, including at UC Berkeley, University of Southampton, University of Strathclyde, and University of Bristol.
- A PLA aerospace lab claiming to have sent multiple grad students for study and training to institutions in the U.S. (including MIT, Stevens Institute of Technology, Utah State, University of Chicago, and Texas Tech), Canada (University of Toronto, York University, and University of Alberta), the Netherlands (Delft University of Technology), Italy (University of Pisa), Spain (Polytechnic University of Catalonia), Germany (University of Wurzburg), and Belgium (KU Leuven).

Published research collaborations made up 10 percent of interactions, although this number would likely grow significantly with a more systematic effort to comb through academic journal databases, which was not a part of this project. Notable examples included:

- Agreements between one PRC military aerospace lab and both Airbus and the University of Manchester to jointly research and develop new composite materials.
- Joint research on hyperspectral image anomaly detection between the University of Tennessee-Knoxville and a lab likely affiliated with the PLA Rocket Force.
- Joint research on underwater sensor networks between a PRC naval acoustics lab and both the University of Houston and Embry-Riddle Aeronautical University.
- Joint research on thrust maneuvers for uncooperative space objects between a PRC military aerospace lab and the German Research Center for Geosciences.
- Joint research between a lab associated with the PRC nuclear program and Tuebingen University in Germany.
- The establishment of a joint lab by Harbin Institute of Technology (one of the Seven Sons) and a French Nobel Prize winner to research intelligent materials, where it is co-located with at least two of HIT's major defense labs.
- Joint research between Sorbonne University in France and a PLA lab on vibration damping, which it claims can break through bottlenecks in production of ships, aircraft, launch vehicles, and weaponry.

Finally, 4 percent of interactions involved contact between individual PRC or Western researchers rather than broader institutional affiliations. Notable examples included:

- A PLA Air Force lab researcher affiliated with the American Institute of Aeronautics and Astronautics (AIAA), U.S. National Science Foundation, and U.S. Department of Energy.
- The Deputy Director of a PRC defense lab also being named as a fellow at the U.K. Institution of Engineering and Technology (IET).
- A PLA Major General and Deputy Director of a PRC military radar lab being a member of the American Society for Opto-Electronic Engineering.
- A PRC researcher of military materials who is affiliated with both a PRC nuclear lab and universities in France and Taiwan.

Interactions by Country and Institution

The dataset recorded 713 individual interactions occurring across the 131 total events. Of these, U.S. institutions had the most recorded interactions, with 204 total. The U.K. had the second most, with 84, and Germany was third, with 46.

Table 1: Interactions with PRC Defense Labs since 2015, by Country

Countries	#	Institution with Most Interactions
USA	204	Massachusetts Institute of Technology (6)
U.K.	84	Imperial College London (7)
Germany	46	Siemens (3)
Canada	40	University of Toronto (6)
France	39	Airbus (4)
Singapore	34	National University of Singapore (14)
Japan	31	Tohoku University (3)
Australia	26	University of Sydney (7)
Italy	22	University of Pisa (4)
Korea	22	Hanyang University, Korea Aerospace University (3)
Russia	19	Russian Academy of Sciences (3)
Netherlands	16	Delft University of Technology (9)
India	15	<i>Five Institutions</i> (2)
Taiwan	13	National Taiwan University (5)
Sweden	11	Lund University (3)
Spain	8	Polytechnic University of Catalonia (3)
Poland	6	Warsaw University of Technology (2)
Portugal	6	University of Evora, University of Lisbon (2)
Belgium	5	Vrije University Brussels (2)
Finland	5	<i>Five Institutions</i> (1)
Israel	4	Technion-Israel Institute of Technology (4)
Switzerland	6	Swiss Federal Technology Institute of Lausanne (3)
New Zealand	4	<i>Four Institutions</i> (1)
Czechia	3	University of Pardubice (2)
Norway	3	University of Oslo (2)

Saudi Arabia	3	King Abdullah University of Science and Technology (3)
Ukraine	3	<i>Two Institutions</i> (1)
Brazil	2	Brazilian Space Agency (1)
Denmark	2	<i>Two Institutions</i> (1)
Greece	3	Aristotle University of Thessaloniki (2)
Ireland	2	<i>Two Institutions</i> (1)
Philippines	2	<i>Two Institutions</i> (1)
Slovenia	3	<i>Three Institutions</i> (1)
Turkey	2	<i>Two Institutions</i> (1)
Austria	1	Austrian Academy of Sciences (1)
Iran	1	Mapna Group (1)
UAE	1	Technology Innovation Institute (1)

A complete list of all institutions appearing in the dataset can be found in Section 2. The Top 20 overall institutions,^{iv} which included those with at least four interactions, were as follows:

Table 2: Institutions with Most Interactions with PRC Defense Labs

Rank	Institutions	Country	#
1	National University of Singapore	Singapore	14
2	Delft University of Technology	Netherlands	9
3	Nanyang University of Technology	Singapore	8
4	University of Sydney	Australia	7
4	Imperial College London	UK	7
6	University of Toronto	Canada	6
6	Massachusetts Institute of Technology	USA	6
8	University of Alberta	Canada	5
8	National Taiwan University	Taiwan	5
8	Loughborough University	UK	5
8	University of Manchester	UK	5
8	University of Southampton	UK	5
8	Purdue University	USA	5
8	University of Pisa	Italy	5
15	University of Ottawa	Canada	4
15	Airbus	France	4
15	University of Bristol	UK	4
15	University of Nottingham	UK	4
15	Duke University	USA	4
15	University of California Berkeley	USA	4
15	University of Houston	USA	4
15	Technion Israel Institute of Technology	Israel	4
15	University of Glasgow	UK	4

Interestingly, while the U.S. has more than double the number of interactions of any other country, it does not have the highest number of institutions with a “high” (four or more) number of interactions. The U.K. leads this list, with seven, while the U.S. has five.

^{iv}23 Institutions appear here, due to ties in the number of interactions.

Table 3: Countries with the Most Institutions in the Top 20

Country	Number of Institutions in Top 20
U.K	7
USA	5
Canada	3
Singapore	2
Australia	1
France	1
Israel	1
Italy	1
Netherlands	1
Taiwan	1

This indicates that U.K. interactions were more concentrated in a smaller number of institutions with a higher degree of contact with PRC defense labs, while in the U.S. this contact is more evenly spread out. And indeed, quantifying this measure by dividing the number of total interactions with the number of institutions from each country found that some were more concentrated in a small number of institutions with more frequent contact with PRC defense labs. Singapore's number, for example, is very high, as its contacts were overwhelmingly concentrated within just two institutions. Likewise, Saudi Arabia and Israel have a low number of total interactions, but these are almost completely concentrated within a single institution in each country. Thus, Australia, the U.K., Canada, the Netherlands, and Sweden all have a lower overall number of interactions than the U.S., but a higher individual rate of contact with PRC defense labs among their institutions.

Table 4: Countries by Rate of Contact with PRC Defense Labs

Country	Total Interactions	Total Institutions	Concentration Score
Singapore	34	7	4.86
Saudi Arabia	3	1	3.00
Israel	5	2	2.50
Australia	26	12	2.17
U.K.	84	41	2.05
Canada	40	20	2.00
Netherlands	16	8	2.00
Sweden	11	6	1.83
India	15	9	1.67
USA	204	123	1.66
Taiwan	13	8	1.63
Spain	8	5	1.60
Russia	19	12	1.58
Italy	22	14	1.57
Czechia	3	2	1.50
Greece	3	2	1.50
Norway	3	2	1.50
Portugal	6	4	1.50
Ukraine	3	2	1.50
France	39	27	1.44

Germany	46	33	1.39
Korea	22	16	1.38
Switzerland	12	9	1.33
Japan	31	24	1.29
Belgium	5	4	1.25
Poland	6	5	1.20

Perhaps most concerning, the dataset included multiple examples of alleged contact and cooperation between PRC defense labs and Western defense institutions. This included military academies, research institutes, and defense companies (or at least companies with significant defense businesses). Fortunately, these interactions were infrequent and one-off in most of the examples below. Regardless, such cases show the clear and urgent need for more stringent vetting of partners when working with PRC institutions. Examples in the data included, but were not limited to, the following:

Table 5: Sample of Foreign Defense Institutions Interacting with PRC Defense Labs

Institution	Country	#
Airbus	France	4
Dassault	France	3
Siemens	Germany	3
IBM	USA	3
Honeywell	USA	2
Intel	USA	2
Metatech	USA	2
Pratt & Whitney	USA	2
U.S. Department of Energy	USA	2
Royal Military College of Canada	Canada	1
Nokia	Finland	1
Nexter Munitions	France	1
Safran	France	1
RENK	Germany	1
Rohde & Schwarz	Germany	1
Federazione Aziende Italiane per l'Aerospazio, la Difesa e la Sicurezza (AIAD)	Italy	1
Piaggio Aerospace	Italy	1
Korea Institute for Defense Analyses	Korea	1
Ampleon	Netherlands	1
LioniX	Netherlands	1
Military Institute of Armament Technology	Poland	1
Military University of Technology	Poland	1
Spanish Defense, Security, and Aerospace Association* (*Translation author's own)	Spain	1
SAAB	Sweden	1
Armasuisse Science and Technology	Switzerland	1
Armelsan Defence Technologies	Turkey	1
Qinetiq	UK	1
Collins Aerospace	USA	1
GE Avio Aero	USA	1
National Instruments	USA	1

PCB Piezotronics	USA	1
Southwest Research Institute	USA	1
Texas Instruments	USA	1
U.S. Air Force Office of Scientific Research	USA	1
U.S. Air Force Research Laboratory (AFRL)	USA	1
U.S. Army Research Laboratory (ARL)	USA	1

Part 2: Interactions with PRC defense research labs

This section presents each of the 131 interactions found, along with the year it occurred, the type of interaction, what research topics it may have broadly covered, and any PLA, military company, research institute, or Seven Sons (“7S”) participation. It is organized by each Defense S&T Key Lab, along with a brief description of that lab’s work and affiliations. Many of these labs have received new names under an ongoing organization of the PRC’s government research system in recent years, and these names were also noted.

In total, the dataset contains 426 different foreign institutions which had some form of contact with PRC defense labs in the last decade. A complete list of all institutions appearing in the data is as follows:

Table 6: Complete List of Foreign Institutions Interacting with PRC Defense Labs, 2015-2025

Institutions	Country	#
2COMU Inc	USA	1
Aalto University	Finland	1
Airbus	France	4
Aixtron AG	Germany	1
Akron University	USA	3
Alliance University	India	1
American Institute of Aeronautics and Astronautics (AIAA)	USA	2
American National Standards Institute	USA	1
American Society for Opto-Electronic Engineering	USA	1
American Vertical Flight Society	USA	1
Ampleon	Netherlands	1
Analytik Jena	Germany	1
Ansys	USA	1
Aristotle University of Thessaloniki	Greece	2
Arizona State University	USA	1
Armasuisse Science and Technology	Switzerland	1
Armelsan Defence Technologies	Turkey	1
Association for Materials Protection and Performance	USA	1
Association for Medium and Small Enterprise Sustainable Development*	France	1
ASTAR	Singapore	3
Australian National University	Australia	1
Austrian Academy of Sciences	Austria	1
Avantes	Netherlands	1
Aviage Systems	USA	1
BASF Coatings GmbH	Germany	1
Bauman Moscow State Technical University	Russia	2
Bell Labs	USA	2
Bethel University	USA	2
Brazilian Space Agency	Brazil	1
BRG	USA	1
British Corrosion Society	UK	1
British Heat Transfer Society	UK	1
Brunel University of London	UK	2

Bundeswehr University Munich	Germany	1
California Institute of Technology	USA	2
Canadian Academy of Engineering	Canada	2
Case Western Reserve University	USA	1
Catholic University	USA	1
CERFACS	France	1
Chalmers University of Technology	Sweden	1
Chang Gung University	Taiwan	1
Charles III University of Madrid	Spain	1
Chiba University	Japan	2
Chinese Academy of Sciences Switzerland	Switzerland	1
Chungnam National University	Korea	1
Cisco	USA	1
Collins Aerospace	USA	1
Columbia University	USA	2
Concordia University	Canada	2
Corrosion Science Society of Korea	Korea	1
Corrosion Society of Australia	Canada	1
Cranfield University	UK	2
D. V. Efremov Institute of Electrophysical Apparatus	Russia	1
Dalhousie University	Canada	1
Danish Academy of Sciences	Denmark	1
Dassault	France	3
De Montfort University	UK	1
Delft University of Technology	Netherlands	9
DoCoMo	Japan	1
Dong-eui University	Korea	1
Dongguan University of Technology Singapore	Singapore	1
Duke University	USA	4
Durham University	UK	1
Ecole Centrale	France	1
Ecole Centrale de Nantes	France	1
École Polytechnique	France	1
ELCOMA	India	1
Embry-Riddle Aeronautical University	USA	2
Emory University	USA	1
EMProtec AG	Switzerland	1
ETH Zurich	Switzerland	2
European UAV Training and Operation Association*	International	1
Exodynamics Technology Inc.	USA	1
Fachhochschule Ingolstadt	Germany	1
Far Eastern Federal University	Russia	1
Federal Aviation Administration	USA	1
Federazione Aziende Italiane per l'Aerospazio, la Difesa e la Sicurezza (AIAD)	Italy	1
Florida Atlantic University	USA	1
France Telecom	France	1
French National Centre for Scientific Research	France	1
GE Avio Aero	USA	1
Geesthacht	Germany	1
George Mason University	USA	1
Georgia Institute of Technology	USA	3
German Ludwig Maximilians-Munchen University	Germany	1

German Research Center for Geosciences	Germany	1
German Society of Corrosion Protection	Germany	1
Goodrich	USA	1
Government Polytechnic	India	2
Hanyang University	Korea	3
Harvard University	USA	3
Helmholtz-Zentrum Hereon	Germany	1
Helmut Schmidt University	Germany	2
Hiroshima University	Japan	1
Hokkaido University	Japan	1
Honeywell	USA	2
Hooghly Engineering & Technology College	India	2
Hosei University	Japan	1
IBM	USA	3
IEEE Electromagnetic Compatibility Society	International	1
IIT Bombay	India	1
IIT Kanpur	India	2
Imperial College London	UK	7
Impetus Afea Co.	Germany	1
Individual Researcher	France	1
Inha University	Korea	1
Institute of Fundamental Technologies	Poland	1
Institut National de la Recherche Scientifique	Canada	1
Institut National de Recherche en Informatique et en Automatique	France	1
Institute of Chemical Dynamics and Combustion	Russia	1
Institute of Electrical and Electronics Engineers (IEEE)	International	3
Institute of Manufacturing Technology	Singapore	1
Institute of Semiconductor Physics	Ukraine	1
Institution of Engineering and Technology	UK	2
Intel	USA	2
International Association for the Advancement of Space Safety Netherlands	Netherlands	1
International Atomic Energy Agency (IAEA)	International	2
International Committee for Weights and Measures	International	1
International Organization for Ship Standardization and Offshore Technical Committee	International	1
International Society of Impact Engineering	Australia	1
Iowa State	USA	1
Izmir Institute of Technology	Turkey	1
Japan Society of Aeronautical and Space Sciences	Japan	1
Jaypee University of Information Technology	India	2
John Paul College	Philippines	1
Joint Institute for High Temperatures	Russia	1
Jožef Stefan Institute	Slovenia	1
Kagakuin University	Japan	1
Karlsruhe Institute of Technology	Germany	1
Keio University	Japan	1
King Abdullah University of Science and Technology	Saudi Arabia	3
Kingston University	UK	1
Kirkhill-TA	USA	1
Kistler	Switzerland	1
Kobe University	Japan	1
Korea Advanced Institute of Science and Technology	Korea	1
Korea Aerospace University	Korea	3

Korea Atomic Energy Research Institute	Korea	1
Korea Institute for Defense Analyses	Korea	1
Korea Institute of Materials and Science	Korea	1
Korea University	Korea	1
Korean Society of Propulsion Engineers	Korea	1
KTH Royal Institute of Technology	Sweden	2
KU Leuven	Belgium	1
Kumamoto University	Japan	1
Kyungpook National University	Korea	1
La Trobe University	Australia	1
Le Mans University	France	1
Lehigh University	USA	1
LG	Korea	1
LioniX	Netherlands	1
Liverpool John Moores University	UK	1
Loughborough University	UK	5
Lucent	USA	1
Ludwig Maximilians-Munchen University	Germany	1
Lulea University of Technology	Sweden	1
Lund University	Sweden	3
Malarden University	Sweden	1
Mapna Group	Iran	1
Massachusetts Institute of Technology	USA	6
Massey University	New Zealand	1
Max Planck Society	Germany	1
Mendeleev University of Chemical Technology	Russia	1
Metatech	USA	2
Military Institute of Armament Technology	Poland	1
Military University of Technology	Poland	1
Mind Research Institute	USA	1
Mines Nancy	France	1
Mistubishi	Japan	1
Moscow State Technological University	Russia	1
Moscow State University	Russia	1
MSC Software	USA	1
Multidisciplinary Center for Infrastructure Engineering	Australia	1
Munich Institute of Space Propulsion	Germany	1
Nagasaki University	Japan	1
Nagoya University	Japan	2
Nanyang University of Technology	Singapore	8
National Academy of Engineering	USA	1
National Academy of Inventors	USA	1
National Academy of Sciences of Ukraine Paton Institute of Electric Welding	Ukraine	1
National Academy of Technological Sciences	France	1
National Cheng Kung University	Taiwan	1
National Chiao Tung University	Taiwan	1
National Glass and Ceramics Lab	France	1
National Government of Switzerland	Switzerland	1
National Institute for Materials Science	Japan	1
National Institute of Standards and Technology (NIST)	USA	1
National Instruments	USA	1
National Research Council of Canada	Canada	1

National Semiconductor	USA	1
National Taiwan University	Taiwan	5
National Taiwan University of Science and Technology	Taiwan	2
National University of Ireland Galway	Ireland	1
National University of Singapore	Singapore	14
National Yang Ming Chiao Tung University	Taiwan	1
Nemak	Germany	1
New York University	USA	2
Nexter Munitions	France	1
Nihon University	Japan	1
Nippon Telegraph and Telephone	Japan	1
NOAA	USA	1
Nokia	Finland	1
North Carolina State University	USA	3
Northeastern University	USA	2
Northwestern University	USA	2
Novosibirsk State Technical University	Russia	1
Oakland University	USA	2
Ohio State University	USA	2
Ohio University	USA	1
Okayama University	Japan	1
Oklahoma State University	USA	1
ONERA	France	1
Osaka Metropolitan University	Japan	1
Otto-von-Guericke University Magdeburg	Germany	1
Oxford University	UK	3
Pall Corporation	USA	1
Paris-Saclay University	France	1
Parthenope University of Naples	Italy	1
PCB Piezotronics	USA	1
Pennsylvania State University	USA	3
Philips	Netherlands	1
Piaggio Aerospace	Italy	1
Pingtung University of Science and Technology	Taiwan	1
Pipistrel Vertical Solutions	Slovenia	1
Pohang University of Science and Technology	Korea	1
Polish Academy of Sciences	Poland	1
Polytechnic University of Catalonia	Spain	3
Polytechnic University of Milan	Italy	3
Polytechnic University of Turin	Italy	1
Polytechnique Montréal	Canada	1
PowerAmerica	USA	2
Prague University of Chemical Technology	Czech Republic	1
Pratt & Whitney	USA	2
Princeton University	USA	3
Purdue University	USA	5
Qinetiq	UK	1
Qt Group	Finland	1
Queen Mary University London	UK	3
RENK	Germany	1
Rensselaer Polytechnic Institute	USA	1
Ricerca sul Sistema Energetico	Italy	1

RIT India	India	1
RMIT University	Australia	2
Rohde & Schwarz	Germany	1
Royal Academy of Engineering	UK	1
Royal Academy of Engineering (NZ)	NZ	1
Royal Aeronautical Society	UK	1
Royal Canadian Academy of Sciences	Canada	1
Royal Military College of Canada	Canada	1
Royal Society of Chemistry	UK	1
Royal Society of Edinburgh	UK	1
Russian Academy of Sciences	Russia	3
Russian Technological University	Russia	1
Rutgers University	USA	2
SAAB	Sweden	1
Safran	France	1
San Francisco State University	USA	1
Sant'Anna School of Advanced Studies	Italy	1
Sapienza University of Rome	Italy	3
SECMA	France	1
SELL	Germany	1
Semenov Institute of Chemistry	Russia	1
Sheffield Hallam University	UK	2
Siemens	Germany	3
SIMTech	Singapore	1
Singapore University of Technology and Design	Singapore	2
Sino-British Joint Laboratory of Advanced Control System Technology	UK	1
Sorbonne Paris Nord University	France	2
Sorbonne University	France	1
Southwest Research Institute	USA	1
Spanish Association for UAVs*	Spain	1
Spanish Defense, Security, and Aerospace Association*	Spain	1
Sri Krishna Polytechnic College	India	2
SST	Germany	1
Stanford University	USA	3
Stevens Institute of Technology	USA	3
STMicroelectronics	Switzerland	1
Sungkyunkwan University	Korea	1
Swinburne University of Technology	Australia	2
Swiss Federal Technology Institute of Lausanne	Switzerland	3
Syracuse University	USA	2
Taiwan National Tsing Hua University	Taiwan	1
Technical University of Braunschweig	Germany	2
Technical University of Denmark	Denmark	1
Technical University of Munich	Germany	1
Technion Israel Institute of Technology	Israel	4
Technological Institute of the Philippines	Philippines	1
Technology Innovation Institute	UAE	1
Tel Aviv University	Israel	1
Texas A&M University	USA	2
Texas Instruments	USA	1
Texas Tech University	USA	2
The Welding Institute (TWI)	UK	1

Thermo Fisher Scientific	USA	1
Tohoku University	Japan	3
Tokushima University	Japan	1
Toshiba	Japan	1
Trinity College Dublin	Ireland	1
TRW Automotive	Germany	1
Tuebingen University	Germany	1
U.S. Air Force Office of Scientific Research	USA	1
U.S. Air Force Research Laboratory (AFRL)	USA	1
U.S. Army Research Laboratory (ARL)	USA	1
U.S. Department of Energy	USA	2
U.S. National Science Foundation	USA	1
Ulm University	Germany	1
Université Libre de Bruxelles	Belgium	1
University Du Maine	France	1
University of Alabama Tuscaloosa	USA	2
University of Alberta	Canada	5
University of Algarve	Portugal	1
University of Arizona	USA	1
University of Bath	UK	1
University of Bern	Switzerland	1
University of Birmingham	UK	2
University of Brighton	UK	1
University of Bristol	UK	4
University of British Columbia	Canada	2
University of Calgary	Canada	1
University of California Berkeley	USA	4
University of California Irvine	USA	2
University of California Los Angeles	USA	1
University of California Merced	USA	2
University of California San Diego	USA	2
University of California Santa Barbara	USA	2
University of Cambridge	UK	1
University of Chicago	USA	1
University of Coimbra	Portugal	1
University of Connecticut	USA	1
University of Duisburg-Essen	Germany	1
University of Eastern Finland	Finland	1
University of Essex	UK	1
University of Evora	Portugal	2
University of Florence	Italy	1
University of Freiburg	Germany	1
University of Glasgow	UK	4
University of Guelph	Canada	1
University of Hamburg	Germany	2
University of Haute-Alsace	France	2
University of Hawaii	USA	1
University of Houston	USA	4
University of Illinois	USA	1
University of Illinois Chicago	USA	1
University of Insubria	Italy	1
University of Kent	UK	3

University of Lancaster	UK	1
University of Leeds	UK	1
University of Leicester	UK	1
University of Lisbon	Portugal	2
University of Liverpool	UK	1
University of Manchester	UK	5
University of Maribor	Slovenia	1
University of Maryland	USA	3
University of Massachusetts Amherst	USA	2
University of Massachusetts Dartmouth	USA	1
University of Melbourne	Australia	1
University of Metz	France	1
University of Michigan	USA	1
University of Mississippi	USA	1
University of Montreal	Canada	2
University of Munich	Germany	2
University of Naples	Italy	1
University of Nebraska Lincoln	USA	1
University of Nevada	USA	1
University of New Mexico	USA	2
University of New South Wales	Australia	3
University of North Carolina	USA	1
University of Nottingham	UK	4
University of Oklahoma	USA	1
University of Oslo	Norway	2
University of Otago	New Zealand	1
University of Ottawa	Canada	4
University of Oulu	Finland	1
University of Palermo	Italy	1
University of Pardubice	Czech Republic	2
University of Paris VI	France	1
University of Pennsylvania	USA	1
University of Pisa	Italy	5
University of Rochester	USA	1
University of Sheffield	UK	1
University of Siena	Italy	1
University of South Florida	USA	1
University of Southampton	UK	5
University of Southern California	USA	1
University of Strathclyde	UK	3
University of Stuttgart	Germany	1
University of Surrey	UK	1
University of Sydney	Australia	7
University of Technology of Belfort-Montbéliard	France	1
University of Technology Sydney	Australia	2
University of Tennessee Knoxville	USA	1
University of Texas	USA	2
University of Texas Arlington	USA	1
University of Texas Dallas	USA	3
University of Tokyo	Japan	2
University of Toronto	Canada	6
University of Tsukuba	Japan	1

University of Twente	Netherlands	1
University of Utah	USA	2
University of Victoria	Canada	1
University of Virginia	USA	3
University of Waikato	New Zealand	1
University of Washington	USA	2
University of Waterloo	Canada	2
University of West Virginia	USA	1
University of Western Australia	Australia	1
University of Western New England	USA	1
University of Windsor	UK	1
University of Wisconsin	USA	1
University of Wollongong	Australia	1
University of Wurzburg	Germany	1
University of York	UK	1
Unknown		44
URSI Commission J	Netherlands	1
URSI USA	USA	1
US Electrostatic Discharge Association	USA	1
US Trade and Development Agency	USA	1
Utah State University	USA	2
Valenica Polytechnic University	Spain	1
Virginia Tech	USA	2
Vrije University Brussels	Belgium	2
Warsaw University of Technology	Poland	2
Waseda University	Japan	1
Western University	Canada	2
Wind River Systems	USA	1
Wolfspeed	USA	1
York University	Canada	3

Defense S&T Key Lab of Advanced Composite Materials

The Defense S&T Key Lab of Advanced Composite Materials [先进复合材料国防科技重点实验室] develops new materials, primarily for military air and space applications. It is subordinate to the AECC Beijing Institute of Aeronautical Materials, which is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA ^v	IND/RI ^{vi}	7S ^{vii}
1	Airbus (FRA)	2017	Research Collab	Materials, Aerospace		AECC	
In 2017, a research team under the DSTKL of Advanced Composite Materials signed an agreement with the European aviation company Airbus to develop composite materials with good conductivity. ³							
2	U of Manchester (UK)	2014-Ongoing?	Research Collab	Materials, Aerospace		AECC	
Since 2014, a research team under the DSTKL of Advanced Composite Materials has developed a new reinforced fabric which was applied to the PLA's KJ-2000 early warning aircraft, which reduced fatigue on parts. The UK's University of Manchester was also reportedly involved in testing. ⁴							
3	Kirkhill-TA (US) Airbus (FRA) SECMA (FRA) SELL (GER)	Ongoing?	Institutional Collab	Unknown		AECC	
AECC's Beijing Institute of Aeronautical Materials (BIAM), a PRC military aviation research institute that oversees both the DSTKL of Advanced Composite Materials and the DSTKL of Advanced High-Temperature Structural Materials, claims to have extensive international relationships. These include with U.S. company Kirkhill-TA, SECMA (France), SELL (Germany), and Airbus. ⁵ It is unclear how BIAM's addition to the USG Entity List for export control in 2020 has affected these relationships.							

^v Participation by military institutions. See “PRC Entities in the Data” for explanation of acronyms.

^{vi} Participation by military-industrial companies or research institutions. See “PRC Entities in the Data” for explanation of acronyms.

^{vii} Participation by Seven Sons universities. See “PRC Entities in the Data” for explanation of acronyms.

Defense S&T Key Lab of Aero-Engine Aerodynamics and Thermodynamics

The Defense S&T Key Lab of Aero-Engine Aerodynamics and Thermodynamics [航空发动机气动热力国防科技重点实验室], officially known as the National Key Laboratory on Aero-Engine Thermodynamics, conducts research on propulsion and aerodynamics for military aircraft. It is subordinate to Beihang University, one of the Seven Sons of National Defense. Beihang is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
4	Case Western Reserve (US) National U of Ireland Galway (IRE) Nanyang Technological U (SIN) National U of Singapore (SIN) U of Nottingham (UK)	2024	Conference	Hypersonic Tech, Propulsion, Rockets	SEU AFEU AMS NUDT Unit 32178	AECC AVIC CAEP	Beihang BIT HEU NUST NWPU

9th National Young Scholar Meeting on Combustion Research [第九届全国青年燃烧学术会议]

Co-organized in 2024 by the DSTKL of Aero-Engine Aerodynamics and Thermodynamics, along with the Chinese Society of Engineering Thermophysics [中国工程热物理学会], Beihang University, and others. Other researchers involved in organizing came from PLA Space Engineering University, PLA Air Force Engineering University, National University of Defense Technology, CAEP, Nanjing University of Science and Technology, Beijing Institute of Technology, Harbin Engineering University, and Northwestern Polytechnical University. Among the PRC participants, personnel from military institutions such as NUDT, the Academy of Military Sciences, Air Force Engineering University, and others (including one from PLA Unity 32178, an apparent research organization), military research and industrial organizations such as CAEP, AVIC, and AECC, and the Seven Sons of National Defense, were heavily represented. Known foreign participants came from the U.S. (Case Western Reserve), U.K. (University of Nottingham Ningbo), Singapore (National University of Singapore, Nanyang Technological University), and Ireland (National University of Ireland Galway). Topics focused on various types of aerospace propulsion, including solid rockets and hypersonic propulsion.⁶

5	Georgia Institute of Technology (US) Princeton U (US) Purdue U (US) U of Connecticut (US) Ecole Centrale (FRA) Oxford U (UK)	Ongoing?	Institutional Collab	Unknown			Beihang
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Beihang University's Department of Thermal Engineering [热能工程系], which oversees the DSTKL of Aero-Engine Aerodynamics and Thermodynamics, claims to have partnerships with multiple Western academic institutions, including Princeton, Purdue, UConn, Georgia Institute of Technology, Oxford, and Ecole Centrale. One professor from Princeton has been named as an honorary professor.⁷ It is unclear if these partnerships continue to the present day.

6	Purdue U (US)	Ongoing?	Institutional Collab	Unknown			Beihang
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Beihang University's Department of Thermal Engineering [热能工程系], which oversees the DSTKL of Aero-Engine Aerodynamics and Thermodynamics, claims to have established a Sino-foreign joint combustion basic research team with Purdue University.⁸ The current status of this research team is unclear.

Defense S&T Key Lab of Aircraft Control and Integration Technology

The Defense S&T Key Lab of Aircraft Control and Integration Technology [飞行器控制一体化技术国防科技重点实验室], now known as the National Key Lab of Flight Vehicle Control Integrated Technology [飞行器控制一体化技术全国重点实验室], develops military aircraft control systems. It is subordinate to the 618th Research Institute of the state-owned military aviation conglomerate AVIC and Beihang University, one of the Seven Sons of National Defense. Both institutions are on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
7	Institut National de Recherche en Informatique et en Automatique (FRA) Bauman Moscow State Technical U (RUS) Loughborough U (UK)	2022-2024	Conference	GNC	NUDT	AVIC CAS-IA CASC CSSC Norinco	Beihang HEU HIT NUAA NWPU

International Conference on Guidance, Navigation and Control [国际制导、导航与控制学术会议]

The 2022 and 2024 iterations of this conference were co-organized by the DSTKL of Aircraft Control and Integration Technology. The 2022 conference was co-organized with the Chinese Society of Aeronautics and Astronautics [中国航空学会], Chinese Association for Automation [中国自动化学会], and Harbin Engineering University. Other PRC participants included the AVIC 601st and 618th RI, Norinco, CSSC, CASC Beijing Institute of Control Engineering [北京控制工程研究所], Beihang University, Nanjing University of Aeronautics and Astronautics, Northwestern Polytechnical University, Harbin Institute of Technology, and CAS Institute of Automation. Named foreign presenters came from the U.K. (Loughborough University) and Russia (Bauman Moscow State Technical University). The 2024 conference was also co-organized with National University of Defense Technology, and featured participation from many of the same institutions as the 2022 conference. Foreign participants came from France (Institut National de Recherche en Informatique et en Automatique).⁹

8	Honeywell (US)	2018	Institutional Collab	GNC		AVIC	Beihang
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AVIC's Xi'an Flight Automatic Control Research Institute (FACRI), a PRC research institute that conducts research into military aircraft, helicopters, and UAVs and also oversees the DSTKL of Aircraft Control and Integration Technology, signed a joint agreement with U.S. aerospace giant Honeywell in 2018 to jointly develop a commercial flight control system. This includes building a 10,000 sq m research and production base in Xi'an. The venture will be called HonFei Flight Technology Co. and will research and manufacture advanced flight control technologies, including fly-by-wire controls. HonFei also provides flight systems for the C919 passenger jet.¹⁰

Defense S&T Key Lab of Airfoil and Blading Dynamics

The Defense S&T Key Lab of Airfoil and Blading Dynamics [翼型、叶栅空气动力学国防科技重点实验室], now known as the National Key Lab of Flight Vehicle Basic Layout [飞行器基础布局国家重点实验室], conducts research into military aircraft, helicopters, and UAVs. It is subordinate to Northwestern Polytechnical University, one of the Seven Sons of National Defense. Northwestern Polytechnical University is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
9	UC Irvine (US) Max Planck Society (GER) U of Twente (NET) National U of Singapore (SIN) Oxford U (UK)	2017-Ongoing?	Institutional Collab	Aerodynamics			NWPU

Between 2017 to at least 2020, the DSTKL of Airfoil and Blading Aerodynamics formed the “Aircraft Complex Flow and Control Innovation and Intelligence Base” [“飞行器复杂流动与控制”创新引智基地] with several foreign academic institutions, including UC Irvine in the U.S., Oxford University in the U.K., and other institutions from Germany (Max Planck Society), Netherlands (University of Twente), and Singapore (National University of Singapore). It is unclear if this base is still in operation.¹¹

10	Akron University (US) Swinburne U of Tech. (AUS) U of Sydney (AUS) U of Paris VI (FRA) Delft U of Tech. (NET)	2007-2016	Institutional Collab	Aerodynamics			NWPU
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Between 2007 and 2016, the DSTKL of Airfoil and Blading Aerodynamics formed the “Behavioral Science and Technology of Structural Mechanics” Innovation and Intelligence Base [结构力学行为科学与技术创新引智基地] with multiple foreign academic institutions, including Akron University in the U.S., and universities in Australia (University of Sydney, Swinburne University of Technology), France (University of Paris VI), and the Netherlands (Delft University of Technology).¹²

Defense S&T Key Lab of Antennas and Microwave Technology

The DSTKL of Antennas and Microwave Technology [天线与微波技术国防科技重点实验室], now known as the National Key Lab of Radar Probing and Cognition [雷达探测感知全国重点实验室], conducts research into military radar technologies. It is subordinate to Xidian University and the 14th Research Institute under the state-owned defense conglomerate CETC. CETC is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
11	Nat. Academy of Engineering (US) Nat. Academy of Inventors (US) National Instruments (US) New York U (US) U of Southern California (US) Austrian Academy of Sciences (AS) Canadian Academy of Engineering (CAN) Technical U of Braunschweig (GER) Royal Society of Edinburgh (UK)	2024	Conference	Measurement Tech, Simulation & Modeling		CETC Huawei	

2024 International Symposium on Measurement and Modeling of 6G Wireless Channels [2024 年“6G 无线信道测量与建模”国际研讨会]

The Director of the DSTKL of Antennas and Microwave Technology was a presenter at the 2024 International Symposium on Measurement and Modeling of 6G Wireless Channels. While much of the conference's website is now inaccessible, other PRC presenters came from Huawei, while foreign presenters came from the U.S. (New York University, University of Southern California, National Instruments, National Academy of Engineering, National Academy of Inventors), U.K. (Royal Society of Edinburgh), Canada (Canadian Academy of Engineering), Germany (Technical University of Braunschweig), and Austria (Austrian Academy of Sciences).¹³

12	U of Ottawa (CAN) LioniX (NET)	2024	Conference	Radar	AFEWC NUDT	AVIC CASC CASIC CETC	BIT NUAA
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2024 29th Conference on Microwave Photonics Technology and Applications [第九届微波光子学技术及应用会议]

Personnel of the DSTKL of Antennas and Microwave Technology participated in the 29th Conference on Microwave Photonics Technology and Applications. Other presenters came from the PLA National University of Defense Technology, speaking directly after a presenter from the Netherlands company LioniX, who spoke on multifunctional hybrid integrated microwave photonic chips. Several other presenters came from NUDT. Other PRC presenters came from PLA Air Force Early Warning College, AVIC, CASIC 23rd and 25th RI, CASC China Academy of Space Technology, CETC 23rd, 29th, 34th, 38th, and 44th RI, Beijing Institute of Technology, Nanjing University of Aeronautics and Astronautics. Another conference chair came from Canada's University of Ottawa.¹⁴

13	Duke U (US) U of Illinois Chicago (US) U of Montreal (CAN) Aalto University (FIN) University of Siena (ITA) Chiba University (JPN) Pohang U of S&T (KOR) Durham U (UK) U of Liverpool (UK)	2024	Conference	AI/ML, Communications, Unmanned Systems, Aerospace, Radar, Electromagnetic Tech		CETC Norinco	BIT
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2024 14th International Conference on Antennas, Propagation and Electromagnetic Theory (ISAPE 2024)
[第十四届天线、传播及电磁理论国际会议]

Co-organized by the DSTKL of Antennas and Microwave Technology, the DSTKL of Electromechanical Engineering and Control, and the DSTKL of Communications Countermeasures Technology, among others. Foreign presenters gave talks on smart hypersurfaces, 6G wireless communications, wireless energy transfer, integrated waveguides, and electromagnetic information theory. Presenters and committee members came from the U.S. (Duke University, University of Illinois Chicago), U.K. (Durham University, speaking on 6G deployment in mmWave and sub-THz bands, University of Liverpool), Canada (University of Montreal), Japan (Chiba University, speaking on antennas for drone, airborne, HAPS, and spaceborne synthetic aperture radar), Korea (Pohang University of Science and Technology), Italy (University of Siena) and Finland (Aalto University).¹⁵

14	IBM (US) Intel (US) U.S. Air Force Office of Scientific Research (US) U.S. Air Force Research Laboratory (US) U.S. Army Research Laboratory (US)	2019	Individual Affiliation	Unknown		CETC	
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A professor who has lectured at the DSTKL of Antennas and Microwave Technology has led or participated in projects funded by the U.S. Air Force Office of Scientific Research, Air Force Research Laboratory (AFRL), Army Research Laboratory, Intel, and IBM. He then returned to the PRC and has led projects for NSFC, MOST, state key labs, and others. He specializes in electromagnetic fields, antennas, and microwaves.¹⁶

15	Duke U (US) Ohio State U (US) Pennsylvania State U (US) U of Wisconsin (US) Ulm U (GER) National U of Singapore (SIN) Chalmers U of Tech. (SWE) Queen Mary U of London (UK) U of Kent (UK)	2015- Ongoing?	Individual Affiliation	Unknown		CETC	
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Since 2015, numerous exchanges and visits from U.S. and foreign academics are described on the website of the DSTKL of Antennas and Microwave Technology. This includes visits from Duke University and Penn State. One Lab academic was sent to study at the University of Wisconsin from 2017 to 2019. Another studied at Ohio State University for several months in 2015. It is also unknown which, if any, of these collaborations are ongoing. Foreign

visitors coming to the lab for exchange and to give lectures in recent years have come from Germany (Ulm University), Singapore (National University of Singapore), Sweden (Chalmers University of Technology), and the U.K. (Queen Mary University of London, University of Kent). They have spoken on topics such as satellite communications and 5G.¹⁷

16	IBM (US) MIT (US) Ohio State U (US) UC Berkeley (US) U of Houston (US) U of Pennsylvania (US) U of Texas (US) U of Sydney (AUS) U of Tech. Sydney (AUS) U of Ottawa (CAN) U of Toronto (CAN) Tohoku U (JPN) U of Tokyo (JPN) Hanyang U (KOR) Sungkyunkwan U (KOR) Massey U (NZ) National U of Singapore (SIN) Nanyang Tech. U (SIN) U of Kent (UK) Queen Mary U London (UK)	Ongoing?	Institutional Collab	Unknown		CETC	
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The DSTKL of Antennas and Microwave Technology claims to have cooperative relationships with a number of institutions around the world, including several U.S. universities: University of California (presumed to be Berkeley), University of Texas, Ohio State University, University of Pennsylvania, MIT, and University of Houston, as well as exchanges with others. One photo shows an IBM employee being awarded an honorary professorship. It also claims to have foreign relationships with Canada (University of Ottawa, University of Toronto), U.K. (University of Kent, Queen Mary University London), Singapore (National University of Singapore, Nanyang Technological University), Australia (University of Sydney, University of Technology Sydney), New Zealand (Massey University), Japan (Tohoku University, University of Tokyo), and Korea (Hanyang University, Sungkyunkwan University).¹⁸ It is also unknown which, if any, of these collaborations are ongoing.

Defense S&T Key Lab of Aviation Engine High-Altitude Simulation Technology

The Defense S&T Key Lab of Defense S&T Key Laboratory of Aviation Engine High-Altitude Simulation Technology [航空发动机高空模拟技术国防科技重点实验室] develops new propulsion technologies for military aircraft. It is subordinate to the 624th Research Institute of PRC military aerospace conglomerate AECC. AECC is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
17	GE Avio Aero (US) Pratt & Whitney (US) Southwest Research Inst. (US) Texas A&M U (US) Airbus (FRA) Safran (FRA) Aristotle U of Thessaloniki (GRE) Mapna Group (IRA) Piaggio Aerospace (ITA) U of Naples (ITA) Pipistrel Vertical Solutions (SLO) Mälardalen University (SWE) ETH Zurich (SWI) Imperial College London (UK)	2022	Conference	Aerospace, Propulsion, Energy		AECC CASIC	

2022 Forum of the Global Power & Propulsion Society (GPPS)

Co-organized by the DSTKL of Aviation Engine High-Altitude Simulation Technology (using its more innocuous name, which removes the "Defense S&T" part), along with defense conglomerate AECC (the sole "platinum sponsor"), the *Journal of Propulsion Technology* (a journal managed by defense SOE CASIC), Iranian company Mapna Group, U.S. company GE Avio Aero, and several other PRC SOEs. Presenters came mostly from the Western world, including the U.S., U.K., France, Italy, Germany, the Netherlands, Greece, Sweden, Switzerland, and others. Institutions included the U.S. Southwest Research Institute, Texas A&M's Turbo Lab, Pratt & Whitney, Safran, Piaggio Aerospace, Airbus, Avio Aero, Pipistrel Vertical Solutions (Slovenia), Imperial College London, University of Naples, ETH Zurich, Aristotle University of Thessaloniki, Malardalen University, etc. A significant number of Western scholars and businesspeople from the fields of gas and clean energy also attended (a list of speakers is available). Topics included more efficient and cleaner engines for civil aviation, hybrid electric aircraft, gas turbines, and clean energy storage.¹⁹

Defense S&T Key Lab of Aviation Plasma Dynamics

The Defense S&T Key Lab of Aviation Plasma Dynamics [航空等离子体动力学国防科技重点实验室] is a PRC military lab conducting research into the use of plasma technologies for military aerospace, including developing superior propulsion, aerodynamics, and stealth for military aircraft. It is subordinate to the PLA Air Force Engineering University.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
18	U of Alberta (CAN) U of Calgary (CAN) Trinity College Dublin (IRE) Korea Advanced Inst. of S&T (KOR) Chungnam National U (KOR) Korea Inst. of Materials and Science (KOR) Moscow State Technological U (RUS) SIMTech (SIN) U of Bristol (UK) U of Leicester (UK) U of Surrey (UK) U of Windsor (UK)	2023	Conference	Materials	AFEU	AVIC CASC CSSC Norinco	HIT

2023 International Conference on Surface Science Technology and Application (ICSSTA 2023) [2023 国际表面科学技术与应用大会]

Co-organized by the DSTKL of Aviation Plasma Dynamics. Other notable organizers included the PLA Air Force Engineering University, Norinco, CSSC, AVIC, CASC, and Harbin Institute of Technology. Foreign presenters came from the U.K. (University of Bristol, University of Windsor, University of Leicester, University of Surrey), Canada (University of Alberta, University of Calgary), Korea (Korea Advanced Institute of Science and Technology, Chungnam National University, Korea Institute of Materials and Science), Singapore (SIMTech), Ireland (Trinity College Dublin), and Russia (Moscow State Technological University). Other invitees reportedly included researchers from the European Academy of Sciences.²⁰

19	Georgia Institute of Tech. (US) Iowa State U (US) UC Santa Barbara (US) Western University (CAN) Kobe University (JPN) National U of Singapore (SIN) Brunel U of London (UK) Sheffield Hallam U (UK) U of Southampton (UK)	2019	Conference	Aerospace	AFEU	AECC	BIT NUAA NWPU
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2019 1st International Symposium on Thermal-Fluid Dynamics

Co-organized by the DSTKL of Aviation Plasma Dynamics, along with several other institutions, including Sheffield Hallam University in the U.K. Participants came from the U.S. (Georgia Institute of Technology, Iowa State, UC Santa Barbara), U.K. (Brunel University of London, University of Southampton, Sheffield Hallam

University), Canada (Western University), Japan (Kobe University), Singapore (National University of Singapore). Notable PRC participants came from the PLA Air Force Engineering University, AECC, Nanjing University of Aeronautics and Astronautics, Beijing Institute of Technology, and Northwestern Polytechnical University. Professor Wu Yun of this lab, confirmed to work on military aircraft projects, was a key organizer.²¹

20	U of Michigan (US) French National Centre for Scientific Research (FRA) Unknown (GER) Nagoya University (JPN) Unknown (KOR) Warsaw U of Tech. (POL) Unknown (SIN)	2018	Conference	Aerospace, Propulsion	AFEU NUDT		NWPU
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2018 9th International Workshop on Detonation for Propulsion (IWDP 2018)

Co-organized by the DSTKL of Aviation Plasma Dynamics. Researchers came from the U.S. (University of Michigan), France (French National Centre for Scientific Research), Japan (Nagoya University), Poland (Warsaw University of Technology), and unnamed institutions in Germany, Singapore, and Korea. Researchers from the PLA National University of Defense Technology were present, along with personnel of this Lab and Northwestern Polytechnical University.²²

21	American Inst. of Aeronautics and Astronautics (US) U.S. Department of Energy (US) U.S. Nat. Science Foundation (US)	2018-Ongoing?	Individual Affiliation	Unknown	AFEU		
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As of 2018, Wu Yun, a prominent researcher of the DSTKL of Aviation Plasma Dynamics, is a member of the International Committee on Plasma Dynamics and Lasers of the American Institute of Aeronautics and Astronautics (AIAA) and a review expert for both the U.S. National Science Foundation and the U.S. Department of Energy.²³

Defense S&T Key Lab of Ballistic Missile Penetration Technology

The Defense S&T Key Lab of Ballistic Missile Penetration Technology [弹道导弹突防技术国防科技重点实验室] is a PRC military lab developing technologies to defeat adversary air and missile defense systems. It is subordinate to the PLA Rocket Force Research Academy.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
22	U of Tennessee Knoxville (US)	2021	Research Collab	Imaging Tech	PLARF Research Academy		

The PLA Rocket Force DSTKL of Ballistic Missile Penetration Technology, a PRC military research lab, appears to be closely affiliated in some way with the Space Vehicle Survival Technology and Effectiveness Assessment Lab; the two may in fact be the same lab. The latter has cooperated with the University of Tennessee Knoxville to conduct research on hyperspectral image anomaly detection based on twin neural networks.²⁴

Defense S&T Key Lab of Ballistics

The Defense S&T Key Lab of Ballistics [弹道国防科技重点实验室], now known as the National Key Lab of Transient Physics [瞬态物理全国重点实验室], develops new armaments and munitions for the PRC military. It is subordinate to the Nanjing University of Science and Technology, one of the Seven Sons of National Defense. Nanjing University of Science and Technology is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
23	Imperial College (UK) Qinetiq (UK)	2016	Institutional Visits/ Exchange	Munitions			NUST

In 2016, the DSTKL of Ballistics hosted an expert from the U.K.'s Imperial College and the defense company Qinetiq to speak. This individual is a leading expert on artillery ballistics, propellants, combustion, advanced charge loading, electromagnetic rail guns, and electrothermal chemical guns. The individual gave a talk with explicitly military applications, on electrothermal chemical and electrothermal ignition guns.²⁵

110	UC San Diego (US) U of Texas (US) International Society of Impact Engineering (AUS) U of New South Wales (AUS) U of Technology Sydney (AUS) University of Pardubice (CZE) Nexter Munitions (FRA) Impetus Afea Co. (GER) Alliance University (IND) RIT India (IND) Polytechnic U of Milan (ITA) Military Institute of Armament Tech. (POL) Mendeleev U of Chemical Technology (RUS) D. V. Efremov Institute of Electrophysical Apparatus (RUS) Dongguan U of Tech. Singapore (SIN) National U of Singapore (SIN) Chinese Academy of Sciences Switzerland (SWI) Imperial College of S&T (UK) Loughborough U (UK) U of Essex (UK)	2018- 2024	Institutional Collab	Unknown	NUDT AEU NEU	CAEP CASC Norinco	BIT NUST
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See Entry 110 under the DSTKL of Space Chemical Power Technology.

Defense S&T Key Lab of Communications Anti-Jamming Technology

The Defense S&T Key Lab of Communications Anti-Jamming Technology [通信抗干扰技术国防科技重点实验室], now known as the National Key Lab of Communications Anti-Jamming [通信抗干扰全国重点实验室], conducts research into military communications equipment. It is subordinate to the University of Science and Technology of China.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
24	Okayama U (JPN) John Paul College (PHI) Tech. Institute of the Philippines (PHI) Singapore U of Tech. and Design (SIN) U of Glasgow (UK)	2025	Conference	AI/ML Communications			NWPU

2025 10th International Conference on Computer and Communications Systems (ICCCS 2025) [2025 年第十届计算机与通信系统国际会议]

Co-organized by the DSTKL of Communications Anti-Jamming Technology, with a focus on 5G/6G communications, Internet of Things, and AI technologies. PRC presenters and organizers came from Northwestern Polytechnical University. Foreign presenters came from the U.K. (University of Glasgow) and Singapore (Singapore University of Technology and Design). Conference committee members came from Japan (Okayama University) and the Philippines (John Paul College, Technological Institute of the Philippines).²⁶

25	National Research Council of Canada (CAN) U of Eastern Finland (FIN)	2024	Conference	Communications			
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2024 3rd International Conference on Electronic Information Technology (EIT 2024) [第三届电子信息技术国际学术会议]

Co-organized by the DSTKL of Communications Anti-Jamming Technology, along with the University of Electronic Science and Technology of China, and others. Foreign presenters came from Canada (National Research Council of Canada) and Finland (University of Eastern Finland).²⁷

26	U of Waterloo (CAN) Aristotle U of Thessaloniki (GRE) Tohoku U (JPN) U of Oslo (NOR) ASTAR (SIN) Nanyang U of Tech. (SIN) Singapore U of Tech. and Design (SIN) U of Glasgow (UK) Imperial College London (UK)	2024	Conference	Communications		Huawei ZTE	
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2024 24th International Conference on Communication Technology (IEEE ICCT 2024) [2024 年 IEEE 第 24 届国际通信技术会议]

The Director of the DSTKL of Communications Anti-Jamming Technology served on the committee for the 24th International Conference on Communication Technology (IEEE ICCT 2024). Other committee members came from Huawei, ZTE, China Mobile, and others. Foreign committee members came from the U.K. (University of Glasgow),

Norway (University of Oslo), Greece (Aristotle University of Thessaloniki), and Singapore (Nanyang Technological University, Singapore University of Technology and Design). Foreign presenters came from the U.K. (Imperial College London), Canada (University of Waterloo), Japan (Tohoku University), and Singapore's ASTAR.²⁸

27	Columbia U (US) Princeton U (US) U of Sydney (AUS) U of Toronto (CAN) U of Waterloo (CAN) KTH Royal Inst. of Tech. (SWE) U of Glasgow (UK)	Ongoing?	Institutional Collab	Communications			
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The DSTKL of Communications Anti-Jamming Technology claims to have grad student joint training agreements with Columbia and Princeton Universities in the U.S., as well as Canadian (University of Toronto, University of Waterloo), U.K. (University of Glasgow), Australian (University of Sydney), and Swedish (KTH Royal Institute of Technology) universities.²⁹ One PhD student at the lab who focuses on mobile 6G communications studied at Princeton University in 2019-2020. Following her return to the PRC, she allegedly continued to work with the Princeton team.³⁰ It is unclear which, if any, of these programs are currently ongoing.

28	Intel (US) Lucent (US) National Semiconductor (US) Texas Instruments (US) Nokia (FIN) France Telecom (FRA) Siemens (GER) DoCoMo (JPN) LG (KOR) Philips (NET) National Government of Switzerland (SWI) STMicroelectronics (SWI)	Ongoing?	Institutional Collab	Communications			
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According to its website, the DSTKL of Communications Anti-Jamming Technology has cooperated with companies such as Intel, Siemens, Nokia, DoCoMo, National Semiconductor, Philips, France Telecom, LG, STMicroelectronics, and the Swiss government. Its grad students have gone on to work at Texas Instruments, Lucent, and Ericsson.³¹

29	Cisco (US)	Ongoing?	Institutional Collab	Communications			
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The DSTKL of Communications Anti-Jamming Technology claims to have established a Cisco-UESTC Joint Research Center for Green Technology [思科公司-电子科技大学绿色技术联合研究中心] with the U.S. company Cisco.³²

30	KTH Royal Inst. of Tech. (SWE)	Ongoing?	Institutional Collab	Communications			
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The DSTKL of Communications Anti-Jamming Technology claims to have established a Joint Research Center for Wireless Communication [联合无线通信研究中心] with the KTH Royal Institute of Technology in Sweden.³³

Defense S&T Key Lab of Communications Countermeasures Technology

The Defense S&T Key Lab of Communications Countermeasures Technology [通信对抗技术国防科技重点实验室], now known as the National Key Lab of Electromagnetic Space Security [电磁空间安全全国重点实验室], conducts research on military communications technologies, as well as on electronic warfare and information warfare. It is subordinate to the 36th Research Institute of PRC state-owned defense conglomerate CETC, which is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
31	Bethel U (US) Oakland U (US) U of Alabama Tuscaloosa (US) U of Houston (US) U of Texas Dallas (US) La Trobe U (AUS) U of Alberta (CAN) Sorbonne Paris Nord U (FRA) U of Haute-Alsace (FRA) Hooghly Engineering & Technology College (IND) IIT-Kanpur (IND) Sri Krishna Polytechnic Col. (IND) Jaypee U of Information Tech. (IND) Govt. Polytechnic (IND) Israel Institute of Tech. (ISR) Sapienza U of Rome (ITA) Polish Academy of Sciences (POL) U of Evora (POR) ASTAR (SIN) Liverpool John Moores U (UK)	2024-2025	Conference	Communications		CETC	HIT

2024 and 2025 International Conference on Communication Software and Networks (ICCSN) [通信软件与网络国际会议]

Co-organized by the DSTKL of Communications Countermeasures Technology. Other co-organizers or committee members included the CETC 41st and 54th RI and Harbin Institute of Technology. Foreign organizers, speakers, and committee members came from the U.S. (University of Houston, University of Alabama, Tuscaloosa, Bethel University, Oakland University, University of Texas Dallas), U.K. (Liverpool John Moores University), Australia (La Trobe University), Canada (University of Alberta), France (Sorbonne Paris Nord University, University of Haute-Alsace), Italy (Universita di Roma La Sapienza), Poland (Polish Academy of Sciences), Portugal (University of Evora), Singapore (A*STAR), Israel (Israel Institute of Technology), and India (Hooghly Engineering & Technology College, IIT-Kanpur, Sri Krishna Polytechnic College, Jaypee University of Information Technology, Govt. Polytechnic), as well as universities from Malaysia, Morocco, Bangladesh, Brazil, Brunei and Pakistan.³⁴

32	Association for Medium and Small Enterprise Sustainable Development* (FRA) AIAD (ITA) Spanish Assn. for UAVs* (SPA) Spanish Defense, Security, and Aerospace Association* (SPA) European UAV Training and Operation Association* (INTL) *Translations are author's own, real names unknown	2023-2025	Conference	Unmanned Systems	AMS NUDT PPU	AVIC CASC CASIC CETC	Beihang HEU NUAA
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2025 International Conference on UAV Application and 6th China International UAV and Anti-UAV [2025 国际无人机应用及防控大会]

Co-organized by the DSTKL of Communications Countermeasures Technology. PRC organizers included the CETC 11th and 36th RIs, CASC 3rd Academy, Beihang University, Nanjing University of Aeronautics and Astronautics, and People's Police University. Foreign organizers included Italy's AIAD (an aerospace and defense industry federation), the Spain Defense, Security, and Aerospace Association [西班牙防务安全与航空航天协会 - author's translation, real name unknown], the Europe UAV Training and Operation Association [欧洲无人机培训运营协会 - author's translation], and France's Association for Medium and Small Enterprise Sustainable Development [法国中小企业可持续发展合作创新协会 - author's translation]. Among other topics, the conference is interested in exploring UAVs and counter-UAV technologies for defense, security, and law enforcement use, as well as various civilian uses.³⁵ While little is available about presenters or participants, the previous conference in 2023 featured presenters from the PLA National University of Defense Technology, PLA Academy of Military Sciences, AVIC, CASC, CASIC, CETC, Harbin Engineering University, Beijing Institute of Technology, and Beihang University. One presenter came from Spain (Spanish Association for UAVs [西班牙无人机协会 - author's translation]).³⁶

33	UC Irvine (US) UC Los Angeles (US) Institut National de la Recherche Scientifique (CAN)	2020	Conference	Nanotechnology		CETC	BIT NUST
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2020 4th Micro-Nano Optics Technology and Application Exchange Conference [第四届微纳光学技术与应用交流会]

Co-organized by the DSTKL of Communications Countermeasures Technology. The event featured foreign participants, including those from UC Irvine, UCLA, and Canada's Institut National de la Recherche Scientifique. PRC Participants came from CETC, Beijing Institute of Technology, and Nanjing University of Science and Technology.³⁷

34	2COMU Inc (US) Arizona State U (US) U of Arizona (US) Duke U (US) Pennsylvania State U (US) U of Illinois (US) U of New Mexico (US) U of Utah (US) U of West Virginia (US) URSI USA (US) Concordia University (CAN) Polytechnique Montréal (CAN) Royal Military College of Canada (CAN) Karlsruhe Institute of Tech. (GER) U of Florence (ITA) Chiba U (JPN) Hosei U (JPN) Nagasaki U (JPN) Tohoku U (JPN) URSI Commission J (NET) Nanyang Technological U (SIN) National U of Singapore (SIN) Charles III U of Madrid (SPA) U of Kent (UK) U of Nottingham (UK)	2018	Conference	Communications, Radar	NUDT	CETC	Beihang BIT HIT NUST
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12th International Symposium on Antennas, Propagation and EM Theory

Co-organized by the DSTKL of Communications Countermeasures Technology. At least two other DSTKLs, the DSTKL of Electronic Information Control and the DSTKL of Radio Wave Environmental Characteristics and Modeling Technology, were also involved in planning the event. It featured multiple international speakers and participants, including speakers from the U.S. (University of West Virginia, URSI USA, Duke University, University of Utah, Arizona State, University of Illinois, University of Arizona, Penn State, 2COMU Inc, University of New Mexico), Canada (Concordia University, Polytechnique Montréal, Royal Military College of Canada), U.K. (University of Kent, University of Nottingham), Singapore (Nanyang Technological University, National University of Singapore), Japan (Chiba University, Hosei University, Nagasaki University, Tohoku University), Germany (Karlsruhe Institute of Technology), Italy (University of Florence), Netherlands (URSI Commission J), and Spain (Charles III University of Madrid). PRC presenters and committee members came from the PLA National University of Defense Technology, CETC, Beihang University, Beijing Institute of Technology, Harbin Institute of Technology, and Nanjing University of Science and Technology.³⁸

13	Duke U (US) U of Illinois Chicago (US) U of Montreal (CAN) Aalto University (FIN) University of Siena (ITA) Chiba University (JPN)	2024	Conference	AI/ML, Communications, Unmanned Systems, Aerospace, Radar,		CETC Norinco	BIT
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	Pohang U of S&T (KOR) Durham U (UK) U of Liverpool (UK)			Electromagnetic Tech			
See entry 13 under the DSTKL of Antennas and Microwave Technology.							

Defense S&T Key Lab of Composite Material Technology in Special Environments

The Defense S&T Key Lab of Composite Material Technology in Special Environments [特种环境复合材料技术国防科技重点实验室] conducts research into new materials for PRC space vehicles and military aircraft. It is subordinate to the Harbin Institute of Technology, one of the Seven Sons of National Defense. Harbin Institute of Technology is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
35	U of Maryland (US) U of Bristol (UK)	2023	Institutional Visits/ Exchange	Aerospace Materials			HIT

This DSTKL of Composite Material Technology in Special Environments co-manages the HIT International Center of Applied Mechanics [哈尔滨工业大学国际应用力学中心] along with several other organizations. The Center facilitates international exchange and cooperation on cutting-edge issues in the field of mechanics. Areas of focus include extreme environment materials and structural mechanical behavior, lightweight and composite mechanics, new aerospace vehicle dynamics and vibration control, and intelligent composite materials. As of 2023, it is recruiting doctoral students from overseas research institutions.³⁹ Researchers from the University of Maryland Department of Aerospace Engineering and the University of Bristol in the U.K. have visited and given lectures at the Center.⁴⁰ In addition, a Russian researcher affiliated with the Center gave a lecture on numerical simulation of high-speed compressible flows in aerospace research and explosion safety. In the lecture, he apparently showed a video provided by a researcher at U.S. Argonne National Laboratory, although the nature of the relationship is unclear.⁴¹

36	Individual Researcher (FRA)	2022- Ongoing?	Research Collab	Materials			HIT
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This DSTKL of Composite Material Technology in Special Environments has a branch in Shenzhen, where it is part of Harbin Institute of Technology's Shenzhen key lab research cluster. At least one other DSTKL, the DSTKL of Tunable Gas Lasers, is also present. HIT's Shenzhen research cluster also features the Sauvage Intelligent New Materials Laboratory, which is run by a French chemist who was a 2016 Nobel Prize winner. As of 2022, it has 5 year funding of 100m RMB. It researches new intelligent materials, including micro and nano-machines and smart sensing based on smart new materials, bio-applications of new two-dimensional atomic crystalline materials, smart quantum materials and flexible sensors, flexible and smart electrochemical energy storage devices, and energy-containing materials based on smart molecular design. It is unclear to what extent the two labs interact, but it is under a PRC defense-affiliated university and in close proximity to at least two national-level defense labs.⁴²

37	Harvard U (US) Northwestern U (US) Stanford U (US) Sydney U (AUS) Unknown (FRA) Unknown (RUS) Unknown (SIN) Unknown (UKR) U of Bristol (UK)	2015- Ongoing?	Institutional Collab	Materials			HIT
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As of 2015, the HIT Composite Materials and Structures Research Institute [复合材料与结构研究所], which is closely associated with the DSTKL of Composite Material Technology in Special Environments, claimed to have an overseas joint lab with Harvard University, as well as long-term exchange and cooperation with Stanford and Northwestern Universities in the U.S., Australia's University of Sydney, and the University of Bristol in the UK. It also claims to have various agreements with unnamed institutions in Russia, Ukraine, France, and Singapore.⁴³

38	Unknown (US) Unknown (BEL) Unknown (GER) Unknown (RUS) Unknown (SIN)	Ongoing?	Institutional Collab	Materials			HIT
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This DSTKL of Composite Material Technology in Special Environments collaborates with several other HIT labs on the HIT Functional Composite Materials Lab [功能复合材料实验室], an interdisciplinary lab which allegedly cooperates with unnamed universities in the U.S., Germany, Belgium, Russia, and Singapore.⁴⁴

Defense S&T Key Lab of Computational Fluid Dynamics

The Defense S&T Key Lab of Computational Fluid Dynamics [国家计算流体力学实验室], oftentimes referred to as the National Laboratory for Computational Fluid Dynamics, is a PRC military lab conducting research into aerodynamics for air and space vehicles. It is subordinate to the China Aerodynamics Research and Development Center (CARD C), a PLA research center, and Beihang University, one of the Seven Sons of National Defense. Both CARD C and Beihang are listed on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
39	MIT (US) U of Manchester (UK) U of Sheffield (UK) U of Southampton (UK)	2023	Conference	Aerospace, AI/ML, Manufacturing, Maritime Tech, Materials	CARD C		Beihang HIT

2023 Beihang International Forum for Young Scientists [北航宁波梅山国际青年学者学术论坛]

A center co-managed by the DSTKL of Computational Fluid Dynamics helped organize the 2023 Beihang International Forum for Young Scientists, specifically a sub-forum on advanced flight vehicles and space power [先进飞行器与空天动力分论坛].⁴⁵ Other PRC participants included Beihang University, Harbin Institute of Technology, Shanghai Jiao Tong University, University of Science and Technology of China, Huazhong University of Science and Technology, and the Zhijiang Laboratory [之江实验室]. Foreign participants came from the U.K., including the University of Manchester, the University of Sheffield, and the University of Southampton. U.S. university MIT's Ningbo (China) Supply Chain Innovation Institute [麻省理工宁波（中国）供应链创新学院] also participated. The forum was intended to advance the PRC's major strategic needs to implement Xi Jinping's call for greater S&T talent. Topics included aviation, aerospace, materials, high-end intelligent manufacturing, and ocean engineering.⁴⁶

Defense S&T Key Lab of Detonator Safety and Reliability

The Defense S&T Key Lab of Detonator Safety and Reliability [火工品安全性可靠性技术国防科技重点实验室] develops new munitions and associated technologies for the PRC military. It is subordinate to the 213th Research Institute of PRC state-owned defense conglomerate Norinco, which is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/ RI	7S
40	Unknown (FRA) Institute of Chemical Dynamics and Combustion (RUS) Semenov Institute of Chemistry (RUS) Royal Society of Chemistry (UK)	2018	Conference	Materials, Munitions		CAEP Norinco	BIT NUST NWPU

2018 4th International Symposium on Nanostructured Energetic Materials and Applied Technology [国际纳米结构含能材料及其应用技术研讨会]

Co-organized by the DSTKL of Detonator Safety and Reliability. International participants included the UK's Royal Society of Chemistry (who also co-hosted the event), as well as institutions from France, South Africa, Russia (Semenov Institute of Chemistry, Institute of Chemical Dynamics and Combustion), and Belarus. PRC participants included CAEP, Nanjing University of Science and Technology, Beijing Institute of Technology, and Northwestern Polytechnical University.⁴⁷

Defense S&T Key Lab of Diesel Engine Booster Technology

The Defense S&T Key Lab of Diesel Engine Booster Technology [柴油机高增压技术国防科技重点实验室] primarily conducts research into military ground vehicle technology. It is subordinate to the 70th Research Institute of state-owned defense conglomerate Norinco, which is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/ RI	7S
41	Royal Canadian Academy of Sciences (CAN)	2019	Conference	Propulsion, Vehicle Tech		CSSC Norinco	BIT

2019 Joint Annual Academic Conference of the China Internal Combustion Engine Society [2019 年联合学术年会暨八届九次常务理事会]

Co-organized by the DSTKL of Diesel Engine Booster Technology, along with the China National Petroleum Lubricants Corporation [中国石油润滑油公司] and others. It featured speakers from the Norinco 70th RI, PetroChina Lanzhou Lubricant Research and Development Center [中国石油兰州润滑油研究开发中心], Tsinghua University, Beijing Institute of Technology, Shanghai University, CSSC, Tianjin University, South China University of Technology, and Weichai Power Co. [潍柴动力股份有限公司]. It also featured at least one speaker from the Royal Canadian Academy of Sciences.⁴⁸

Defense S&T Key Lab of Electromagnetic Compatibility

The Defense S&T Key Lab of Electromagnetic Compatibility [电磁兼容性国防科技重点实验室], now possibly known as the National Key Lab of Maritime Equipment Electromagnetic Effectiveness and Security [海洋装备电磁效应及安全全国重点实验室], primarily develops weapons and equipment for the PLA Navy. It is subordinate to the 701st Research Institute of PRC state-owned defense conglomerate CSSC, the PRC's largest supplier of naval vessels. CSSC is on the BIS Entity List.

#	Foreign Orgs	Year	Type	Research Topics	PLA	IND/ RI	7S
42	Unknown (US) Unknown (AUS) U of Montreal (CAN) Unknown (GER) National U of Singapore (SIN) Unknown (UK)	2020	Conference	Communications, Electromagnetic Tech, Materials		CSSC	NWPU

2020 IEEE International Microwave Symposium Series - Advanced Materials and Processes for RF and Terahertz Applications (IEEE MTT-S IMWS-AMP 2020) [2020 IEEE MTT-S 国际微波研讨会系列-应用于射频及太赫兹的先进材料和工艺]

Co-organized by the DSTKL of Electromagnetic Compatibility, along with Northwestern Polytechnical University, National University of Singapore, and several other PRC institutions. Participants came from the U.S., U.K., Germany, Canada (University of Montreal), and Australia.⁴⁹

43	Unknown (US) Unknown (AUS) Unknown (BRA) Unknown (GER) Unknown (JPN) Polytechnic U of Milan (ITA) Unknown (RUS) Swiss Federal Tech. Inst. of Lausanne (SWI) De Montfort U (UK) IEEE Electromagnetic Compatibility Society (INTL)	2020	Conference	Electromagnetic Tech		CAEP CETC CSSC	
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2020 6th IEEE Global Electromagnetic Compatibility Conference (GEMCCon 2020) [第六届 IEEE 全球电磁兼容国际会议在西安举行]

Co-organized by the DSTKL of Electromagnetic Compatibility. Participants included the CETC 33rd RI and CAEP. Notable international participants included researchers from the U.S., Japan, Australia, Germany, Russia, the U.K. (De Montfort University), Switzerland (Swiss Federal Technology Institute of Lausanne), and Italy (Polytechnic University of Milan), and Brazil.⁵⁰

44	Metatech (US) Helmut Schmidt U (GER) Korea Inst. for Defense Analyses (KOR) Korea Aerospace U (KOR) Inha U (KOR) SAAB (SWE) Swiss Federal Tech. Institute of Lausanne (SWI)	2019	Conference	Electromagnetic Tech	AEU NUDT	AVIC CAEP	
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2019 Asian Electromagnetics Conference [2019 亚洲电磁学国际会议]

Co-organized by the DSTKL of Electromagnetic Environment Effects and DSTKL of Electromagnetic Compatibility, two PRC defense research labs. PRC participants included the PLA National University of Defense Technology, CAEP, and AVIC. Foreign speakers and participants included at least two individuals known to be associated with U.S. allied defense and cybersecurity agencies. Foreigners came from the U.S. (Metatech), Germany (Helmut Schmidt University; the same researcher formerly worked for the French Network and Information Security Agency), Korea (Korea Institute for Defense Analyses, Korea Aerospace University, and Inha University; a Korean presenter at the event is also affiliated with the Agency for Defense Development, although his affiliation in 2019 is unclear), Sweden (SAAB), and Switzerland (Swiss Federal Technology Institute of Lausanne).⁵¹

Defense S&T Key Lab of Electromagnetic Environment Effects

The Defense S&T Key Lab of Electromagnetic Environment Effects [电磁环境效应国防科技重点实验室] is a PRC military lab conducting research into electromagnetic technologies and electronic warfare. It is subordinate to the PLA Army Engineering University.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
45	Metatech (US) U of New Mexico (US) Helmut Schmidt U (GER) Otto-von-Guericke U Magdeburg (GER) Hanyang U (KOR) Joint Inst. for High Temperatures (RUS) EMProtec AG (SWI) Armasuisse S&T (SWI) Tech. Innovation Institute (UAE)	2019	Institutional Collab	Electromagnetic Tech	AEU		

The Director of the DSTKL of Electromagnetic Environment Effects and Electro-Optical Engineering served as vice chairman for the First Plenary Session of the International Academic Committee of the National International Joint Research Center for Transient Electromagnetic Environment and Applications [瞬态电磁环境与应用国家级国际联合研究中心国际学术委员会第一次全体会议]. The session included participation from multiple foreign researchers. While only names with no affiliations were provided, a basic internet search reveals that foreign participants may have been associated with the following institutions: U.S. (Metatech, University of New Mexico), Germany (Helmut Schmidt University, Otto-von-Guericke University Magdeburg), Korea (Hanyang University), Switzerland (EMProtec AG, Armasuisse Science and Technology, notably the technological center for the Swiss Federal Department of Defence, Civil Protection and Sport), Russia (Joint Institute for High Temperatures), and the UAE (Technology Innovation Institute). The conference featured participation from both of the electromagnetic research labs under the PLA Army Engineering University, the other being the DSTKL of Electromagnetic Environment Effects.⁵²

46	American National Standards Inst. (US) IBM (US) US Electrostatic Discharge Assn. (US) US Trade and Development Agency (US)	2015- 2019	Conference	Electromagnetic Tech	AEU	CASC SASTIND	
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China-US International Symposiums on Electrostatic Protection and Standardization [静电防护与标准化国际研讨会]

Co-organized by the DSTKL of Electromagnetic Environment Effects. The 4th (2015) symposium was hosted along with CASC, the U.S. Trade and Development Agency, American National Standards Institute, and the U.S. Electrostatic Discharge Association. Reps of the CASC 514th RI (Beijing Dongfang Institute of Measurement and Testing [北京东方计量测试研究所]) and U.S. company IBM were also present. The symposium discussed standardization and electrostatic discharge related to intelligent manufacturing, the Internet of Things, and smart hardware.⁵³ The 5th Symposium in 2016 also featured representation from the SASTIND Explosive Measurement Station [国防科技工业火炸药一级计量站].⁵⁴ The 8th symposium in 2019 featured most of the same institutions

on both sides, as well as the CASC Institute of Standardization [中国航天标准化研究所] (708th RI) and the CAST Space S&T Information Institute [北京空间科技信息研究所] (512th RI).⁵⁵

44	Metatech (US) Helmut Schmidt U (GER) Korea Inst. for Defense Analyses (KOR) Korea Aerospace U (KOR) Inha U (KOR) SAAB (SWE) Swiss Federal Tech. Institute of Lausanne (SWI)	2019	Conference	Electromagnetic Tech	AEU NUDT	AVIC CAEP	
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See entry 44.

Defense S&T Key Lab of Electromechanical Engineering and Control

The Defense S&T Key Lab of Electromechanical Engineering and Control [机电工程与控制国防科技重点实验室 or 机电动态控制重点实验室] develops munitions and associated technologies for the PRC military. It is subordinate to the 212th Research Institute of PRC state-owned defense conglomerate Norinco and Beijing Institute of Technology, one of the Seven Sons of National Defense. Both Norinco and Beijing Institute of Technology are on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
47	Caltech (US) Polytechnic U of Catalonia (SPA)	2023	Conference	Nanotechnology	NUDT	CETC CSSC Norinco	Beihang BIT HIT NWPU

2023 25th Annual Conference and 14th International Conference of the Chinese Society for Micron Nanotechnology (CSMNT2023) [中国微米纳米技术学会第二十五届学术年会暨第十四届国际会议]

Co-organized by the DSTKL of Electromechanical Engineering and Control, along with the Chinese Society of Micro and Nano Technology [中国微米纳米技术学会], Harbin Institute of Technology, and Tsinghua University, among others. PRC researchers from the PLA National University of Defense Technology, CETC 11th and 55th RI, Norinco 213th RI, CSSC 705th RI, Northwestern Polytechnical University, and Beihang University. Foreign presenters came from the U.S. (Caltech) and Spain (Universitat Politècnica de Catalunya).⁵⁶

48	Concordia U (CAN) U of Hamburg (GER) Delft U of Technology (NET) Nanyang Technological U (SIN) Cranfield U (UK) U of Manchester (UK) Institute of Electrical and Electronics Engineers (INTL)	2019	Conference	Aerospace, AI/ML, Unmanned Systems	NUDT	CASIC Norinco CCCS	BIT NWPU
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2019 2nd IEEE International Conference on Unmanned Systems (IEEE ICUS 2019) [第二届 IEEE 国际无人系统大会]

Co-organized by the DSTKL of Electromechanical Engineering and Control, along with Beijing Institute of Technology, the China C2 Society [中国指挥与控制学会], the Institute of Electrical and Electronics Engineers (IEEE), and others. Beside IEEE, foreign participants came from the U.K. (Cranfield University, University of Manchester), Canada (Concordia University, Germany (University of Hamburg, the Netherlands (Delft University of Technology), and Singapore (Nanyang Technological University). Notable PRC participants also came from PLA National University of Defense Technology, CASIC, and Northwestern Polytechnical University. Topics included AI and image processing, space intelligent unmanned systems, unmanned system payload technology, and complex system control and intelligent cooperation, among others.⁵⁷

13	Duke U (US) U of Illinois Chicago (US) U of Montreal (CAN) Aalto University (FIN) University of Siena (ITA)	2024	Conference	AI/ML, Communications, Unmanned Systems, Aerospace, Radar,		CETC Norinco	BIT
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	Chiba University (JPN) Pohang U of S&T (KOR) Durham U (UK) U of Liverpool (UK)			Electromagnetic Tech			
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See entry 13 under the DSTKL of Antennas and Microwave Technology.

Defense S&T Key Lab of Electronic Information Control

The Defense S&T Key Lab of Electronic Information Control [电子信息控制国防科技重点实验室] primarily develops new electronic warfare technologies for the PRC military. It is subordinate to the 29th Research Institute of PRC state-owned defense conglomerate CETC. CETC is listed on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
49	U of Ottawa (CAN) Valencia Polytechnic U (SPA)	2023	Conference	Communications, Electromagnetic Tech, Measurement Tech, Radars, Sensing	AFEU AFEWA AMS	AVIC CASC CETC CSSC	NUAA

2023 8th Conference on Microwave Photonic Technology and Applications [第八届微波光子学技术及应用会议/研讨会]

Personnel of the DSTKL of Electronic Information Control and DSTKL of Space Microwave Technology, two PRC military research labs, were involved in organizing this conference, although it is unclear if the lab played a role institutionally (the lab did play a role in organizing the previous conference, in 2022⁵⁸). Major organizers included (but were not limited to) the Optical Engineering Society of China [中国光学工程学会], Nanjing University of Aeronautics and Astronautics, CETC 14th and 29th, 34th, 38th, 44th, 54th, and 55th RIs, CASC China Academy of Space Technology, and the CSSC 723rd RI, as well as multiple private companies. Individuals from the PLAAF Early Warning Academy, PLAAF Engineering University, Chinese Academy of Military Science, and AVIC were also involved in organizing. Research topics included high-speed broadband optoelectronics, microwave photonic integrated chips, microwave photon radars, imaging, sensing, and measurement, millimeter wave and terahertz communications, microwave photonics for aerospace, intelligent microwave photonics, space laser microwave communications, and communications countermeasures. The conference featured participation and reports from researchers from Canada's University of Ottawa (speaking on microwave photonics and photonic integration) and Spain's Valencia Polytechnic University (speaking on programmable integrated photonics for signal processing and computing).⁵⁹

50	Bethel University (US) North Carolina State U (US) Oakland U (US) Texas A&M U (US) U of Alabama Tuscaloosa (US) U of Houston (US) U of Texas Dallas (US) U of Sydney (AUS) Western University (CAN) Canadian Academy of Engineering (CAN) U of Alberta (CAN) Sorbonne Paris Nord U (FRA) U of Haute-Alsace (FRA) IIT Kanpur (IND) Sri Krishna Polytechnic Col. (IND) Hooghly Engineering & Tech. Col. (IND) Jaypee U of Information Tech (IND) Government Polytechnic (IND) Israel Institute of Tech. (ISR) Sapienza U of Rome (ITA) Kagakuin U (JPN) U of Evora (POR) King Abdullah U of S&T (SAU) Taiwan National Tsing Hua U (TAI) U of Birmingham (UK)	2020	Conference	Communications		CETC	
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2020 12th International Conference on Communication Software and Networking (ICCSN 2020) [第十二届通信软件和网络国际会议]

Personnel of the DSTKL of Electronic Information Control participated in this conference, which was co- organized by the CETC 54th RI. Foreign participants came from the U.S., U.K., Australia, France, Taiwan, and others. This included participants from Texas A&M University, University of Sydney, Sorbonne Paris Nord University, and Taiwan National Tsing Hua University.⁶⁰ At least one lab member is a current organizing committee member, and the defense conglomerate CETC continues to be a major participant (by 2022, this fact was omitted from the English language introduction but still included in the Chinese introduction). Foreign participants in more recent years have come from the University of Houston, NC State University, University of Alabama, University of Birmingham (U.K), Western University (Canada), Canadian Academy of Engineering (speaking on 5G and 6G intelligent communications), University of Haute-Alsace (France), King Abdullah University of Science and Technology (Saudi Arabia).⁶¹ Current conference committee members include researchers from the CETC 36th, 41st and 54th RI, University of Alabama Tuscaloosa, Bethel University, Oakland University, University of Texas Dallas (U.S.), University of Alberta (Canada), Kagakuin University (Japan), University of Haute Alsace, Universita di Roma La Sapienza (Italy), University of Evora (Portugal), IIT Kanpur, Sri Krishna Polytechnic College, Hooghly

Engineering & Technology College, Jaypee University of Information Technology, Government Polytechnic (India), International Islamic University Malaysia, and Israel Institute of Technology, among others.⁶²

34	2COMU Inc (US) Arizona State U (US) U of Arizona (US) Duke U (US) Pennsylvania State U (US) U of Illinois (US) U of New Mexico (US) U of Utah (US) U of West Virginia (US) URSI USA (US) Concordia University (CAN) Polytechnique Montréal (CAN) Royal Military College of Canada (CAN) Karlsruhe Institute of Tech. (GER) U of Florence (ITA) Chiba U (JPN) Hosei U (JPN) Nagasaki U (JPN) Tohoku U (JPN) URSI Commission J (NET) Nanyang Technological U (SIN) National U of Singapore (SIN) Charles III U of Madrid (SPA) U of Kent (UK) U of Nottingham (UK)	2018	Conference	Communications, Radar	NUDT	CETC	Beihang BIT HIT NUST
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See entry 34 under Defense S&T Key Lab of Communications Countermeasures Technology.

Defense S&T Key Lab of Equipment Integrated Support Technology

The Defense S&T Key Lab of Equipment Integrated Support Technology [装备综合保障技术国防科技重点实验室], now possibly known as the National Key Lab of Equipment Status Cognition and Rapid Support [装备状态感知与敏捷保障全国重点实验室], is a PRC military research lab conducting research into equipment maintenance and reliability. It is subordinate to the PLA National University of Defense Technology, which is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
51	Sorbonne U (FRA)	2017	Research Collab	Acoustics, Materials	NUDT		

In 2017, a researcher affiliated with the DSTKL of Equipment Integrated Support Technology, a PRC military research lab, collaborated with the Sorbonne University in France to research low-frequency and broadband vibration damping characteristics of nonlinear acoustic metamaterials. The results, which an article on the research said could provide new theories for overcoming technological bottlenecks in vibration, were published in the journal Nature Communications. An article about the collaboration states that vibration and noise control is a key technology of industrial production, transport, and weaponry, and improving reliability of ships, aircraft, and launch vehicles.⁶³

52	UC Berkeley (US) U of Bristol (UK) U of Southampton (UK) U of Strathclyde (UK)	2015- Ongoing?	Institutional Visits/ Exchange	Unknown	NUDT		
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Several personnel affiliated with the DSTKL of Equipment Integrated Support Technology, a PRC military research lab, have studied in the U.S. and U.K. since 2015, including at UC Berkeley, University of Southampton, University of Strathclyde, and University of Bristol.⁶⁴

Defense S&T Key Lab of Explosive Combustion

The Defense S&T Key Lab of Explosive Combustion [火炸药燃烧国防科技重点实验室], now possibly known as the National Key Lab of Energy Containing Materials [含能材料全国重点实验室], conducts research into munitions and propulsion technologies for the PRC military. It is subordinate to the 204th Research Institute of PRC state-owned defense conglomerate Norinco. Norinco is listed on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
53	Unknown (US) Unknown (CAN) Unknown (GER) Unknown (JPN) Unknown (RUS) Unknown (SWI)	Ongoing?	Institutional Collab	Unknown		Norinco	

Per one source, Norinco's 204th Research Institute, a munitions research institute that also oversees the DSTKL of Explosive Combustion, claims to send personnel to the US, Japan, Germany, Switzerland, Canada, and Russia for further studies and exchanges.⁶⁵

Defense S&T Key Lab of Gallium Arsenide Microwave and Millimeter Wave Monolithic and Modular Circuitry

The Defense S&T Key Lab of Gallium Arsenide Microwave and Millimeter Wave Monolithic and Modular Circuitry [砷化镓微波毫米波单片和模块电路国防科技重点实验室] conducts research into advanced semiconductors, including for military use, as well as military radars and communications equipment. As of 2024, it may now be known as the National Key Lab of Solid-state Microwave Devices and Circuitry [固态微波器件与电路全国重点实验室]. It is subordinate to the 55th Research Institute of PRC state-owned defense conglomerate CETC. CETC is listed on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/ RI	7S
54	PowerAmerica (US) Virginia Tech (US) U of Virginia (US) North Carolina State U (US) U of Toronto (CAN) Nagoya U (JPN) Delft U of Technology (NET) King Abdullah U of S&T (SAU)	2023	Conference	Semiconductors		CETC ZTE	

2023 8th International Forum on Third Generation Semiconductors (IFWS) & the 19th China International Semiconductor Lighting Forum (SSLCHINA)

The Director of the DSTKL of Gallium Arsenide Microwave and Millimeter Wave Monolithic and Modular Circuitry was a speaker at the 8th International Forum on Third Generation Semiconductors (IFWS) & 19th China International Semiconductor Lighting Forum (SSLCHINA). This conference also featured researchers from PRC military-affiliated companies CETC and ZTE, as well as researchers from the U.S. (PowerAmerica, Virginia Tech, University of Virginia, NC State), Canada (University of Toronto), the Netherlands (Delft University of Technology), Saudi Arabia (King Abdullah University of Science and Technology), and a Japanese Nobel Prize winner from Nagoya University.⁶⁶

Defense S&T Key Lab of Helicopter Rotor Dynamics

The Defense S&T Key Lab of Helicopter Rotor Dynamics [直升机旋翼动力学国防科技重点实验室], now possibly known as the National Key Lab of Helicopter Dynamics [直升机动力学全国重点实验室], develops advanced helicopters for the PRC military. It is subordinate to the 602nd Research Institute of PRC state-owned defense conglomerate AVIC and Nanjing University of Aeronautics and Astronautics, one of the Seven Sons of National Defense. Both institutions are on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
55	Pall Corporation (US) PCB Piezotronics (US) Airbus (FRA) Dassault (FRA)	2022	Conference	Helicopter Tech		AVIC	NUAA NWPU

2022 38th China Helicopter Academic Exchange Conference and 6th International Forum on the Civil Helicopter Industry [第 38 届中国直升机学术交流会（线上）暨 2022 第 6 届民用直升机产业国际论坛]

A top researcher at the DSTKL of Helicopter Rotor Dynamics spoke at this event. Organizers included the Nanjing University of Aeronautics and Astronautics and AVIC. Speakers came from AVIC and Northwestern Polytechnical University, as well as a chief inspector for the PRC's aerospace defense industry [大中华区航空航天国防行业技术总监]. One French speaker came from Airbus. The event was also co-sponsored by the Pall Corporation, PCB Piezotronics, and Dassault Systems.⁶⁷

56	American Vertical Flight Society (US)	Ongoing?	Institutional Collab	Helicopter Tech			NUAA
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The DSTKL of Helicopter Rotor Dynamics claims to be affiliated with the China chapter of the American Vertical Flight Society.⁶⁸

57	Russian Technological U (RUS) Glasgow U (UK) U of Nottingham (UK)	Ongoing?	Institutional Collab	Helicopter Tech			NUAA
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The DSTKL of Helicopter Rotor Dynamics claims to have signed agreements to create a Joint Research Center for Helicopter Technology [直升机技术联合研究中心] with Glasgow University and an International Joint Research Center for Helicopter Configuration [直升机结构国际联合研究中心] with University of Nottingham, as well as a Sino-Russian Joint Laboratory with the Russian Technological University.⁶⁹

Defense S&T Key Lab of High Energy Beam Processing Technology

The Defense S&T Key Lab of High Energy Beam Processing Technology [高能束流加工技术国防科技重点实验室] develops new manufacturing technologies for PRC space vehicles and military aircraft. It is subordinate to the Manufacturing Technology Institute under the state-owned defense conglomerate AVIC. AVIC is listed on the BIS entity list.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
58	National Academy of Technological Sciences (ITA) University of Palermo (ITA) Institute of Fundamental Technologies (POL) Institute of Manufacturing Technology (SIN) Royal Academy of Engineering (UK)	2023	Conference	Manufacturing, Materials		AVIC	

2023 International Conference on Lightweight Materials and Manufacture (LMM 2023) [2023 轻质材料与轻量化制造技术国际会议]

Co-organized by the DSTKL of High Energy Beam Processing Technology. Foreign participants came from the U.K., Italy, Poland, and Singapore, including the U.K. Royal Academy of Engineering, French National Academy of Technological Sciences (speaking on 3D printing of high-strength and lightweight alloys), Italy's University of Palermo, Poland's Institute of Fundamental Technologies, and Singapore's Institute of Manufacturing Technology.⁷⁰

59	U of Nebraska Lincoln (US) SST (GER) Toshiba (JPN) Korea Aerospace U (KOR) The Welding Institute (UK) U of Manchester (UK) National Academy of Sciences of Ukraine Paton Institute of Electric Welding (UKR)	2016-2018	Conference	Aerospace, Manufacturing		AVIC	
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2016 and 2018 International Conference on Power Beam Processing Technologies (ICPBPT) [高能束流加工技术国际学术会议]

Co-organized by the DSTKL of High Energy Beam Processing Technology with The Welding Institute (TWI) of the U.K. Other foreign participants included the University of Nebraska Lincoln, University of Manchester, Korea Aerospace University, National Academy of Sciences of Ukraine Paton Institute of Electric Welding, Toshiba, and German company SST.⁷¹

Defense S&T Key Lab of High-Power Microwave Electronic Vacuum Component Technology

The Defense S&T Key Lab of High Power Microwave Electronic Vacuum Component Technology [大功率微波电真空器件技术国防科技重点实验室] develops radars for the PRC military. As of 2024, it may now be known as the National Key Lab of Microwave Electronic Vacuum Devices [微波电真空器件全国重点实验室]. It is subordinate to the 12th Research Institute of PRC state-owned defense conglomerate CETC, as well as the University of Electronic Science and Technology of China. Both of these institutions are on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
60	Institution of Engineering and Technology (UK)	Ongoing?	Individual Affiliation	Unknown		CETC	
Feng Jinjun, Deputy Director of the DSTKL of High-Power Microwave Electronic Vacuum Component Technology, is a Fellow of the U.K. Institution of Engineering and Technology (IET). ⁷²							

Defense S&T Key Lab of Hydroacoustic Technology

The Defense S&T Key Lab of Hydroacoustic Technology [水声技术国防科技重点实验室], now known as the National Key Lab of Hydroacoustic Technology [水声技术全国重点实验室], conducts research into acoustics for military submarines and other underwater vehicles. It is subordinate to Harbin Engineering University, one of the Seven Sons of National Defense. Harbin Engineering University is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
61	Catholic U (US) Lehigh U (US) Northeastern U (US) Pennsylvania State U (US) U of Hawaii (US) UMass Dartmouth (US) U of Mississippi (US) U of Washington (US) U of Victoria (CAN) U of Oslo (NOR) University of Algarve (POR) National Taiwan U (TAI) Loughborough U (UK) U of Bath (UK) Institute of Electrical and Electronics Engineers (INTL)	2021	Conference	Acoustics	Dalian Naval Academy PLAN Research Academy		HEU

2021 IEEE/OES China Ocean Acoustics Conference [中国海洋声学国际会议]

Co-organized by several PRC military-affiliated labs, including the DSTKL of Sonar Technology, DSTKL of Hydroacoustic Technology, DSTKL of Underwater Measurement & Control Technology, and the DSTKL of Hydroacoustic Countermeasure Technology. Other prominent organizers included Harbin Engineering University (including being co-chaired by prominent defense researcher Yang Desen, an expert in sonar technology at the DSTKL of Hydroacoustic Tech.). The conference focused on underwater acoustics and acoustical oceanography, ocean sound propagation, marine sediment acoustics, problems of ocean noise and reverberation, sonar modeling, signal detection and estimation, acoustical sensors and arrays, underwater acoustic communication, polar acoustics, and other related fields. The conference's scientific committee included researchers from the PLA's Naval Research Academy and Dalian Naval Academy alongside Penn State University, University of Washington, Lehigh University, University of Mississippi, UMass Dartmouth, Catholic University, and University of Hawaii in the US, University of Bath and Loughborough University in the UK, University of Algarve in Portugal, National Taiwan University, University of Oslo, and University of Victoria in Canada. PLAN personnel took part throughout. A professor from UMass Dartmouth spoke on advances in broadband underwater acoustic transducers and navigation, and a professor from Northeastern University spoke on acoustic communication.⁷³

62	Keio U (JPN) National U of Singapore (SIN) National Taiwan U (TAI)	2024	Conference	Acoustics			HEU
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China International Conference on Ocean Acoustics [2024 中国海洋声学国际会议]

Co-organized by the DSTKL of Hydroacoustic Technology, Yang Desen, a leading researcher of this lab who is notable for his work in underwater vehicle stealth technology and work with the PLA on sub vibration and noise reduction, played a prominent role in the conference proceedings, calling for expanded international cooperation. Researchers came from the U.S., Japan, Korea, Taiwan, Singapore, and Russia, among other countries. A professor from National Taiwan University gave a presentation on a new method of passive acoustics to locate whales. A professor from National University of Singapore gave a presentation on distributed underwater acoustic sensing, including new techniques for detecting and monitoring vibrations in the environment using fiber-optic cables, as well as sharing information on emerging demodulator technologies and customized cables for sensing. A professor from Keio University in Japan gave a presentation on how structural characteristics of hollow-core optical fibers can be used to realize low-latency technology beyond 5G.⁷⁴

63	Embry-Riddle Aeronautical U (US) Harvard U (US) NOAA (US) Dalhousie U (CAN) U of British Columbia (CAN) U of Ottawa (CAN) Le Mans U (FRA) Far Eastern Federal U (RUS) ASTAR (SIN) U of Bern (SWI) National Taiwan U (TAI) Armelsan Defence Technologies (TUR) U of Southampton (UK) U of York (UK)	2020	Conference	Acoustics, AI/ML, Sensing			HEU
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International Forum of Ocean Information 2020

Co-organized by the DSTKL of Hydroacoustic Technology, alongside Harbin Engineering University, the Key Laboratory of Marine Information Acquisition and Security, and the Heilongjiang Ocean Information Technology Key Laboratory. This international conference featured numerous PRC speakers who work or have worked on defense projects or have served as defense consultants. Topics of interest included weapons and equipment assessment technology and military intelligence analysis, as well as dual-use research on AUVs, acoustic surveys of the American and Canadian west coasts, polar acoustic detection and communications, fiber-optic sensing, and mine hunting sonar. Foreign researchers came from the U.S. (Harvard University, NOAA, Embry-Riddle Aeronautical University), U.K. (University of Southampton, University of York), Canada (Dalhousie University, University of British Columbia, University of Ottawa), France (Le Mans University), Switzerland (University of Bern), Taiwan (National Taiwan University), Singapore (A*STAR), Turkey (Armelsan Defence Technologies), and Russia (Russian Far Eastern Federal University).⁷⁵

64	U of Southampton (UK)	2019	Research Collab	Acoustics			HEU
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Research collaboration between the DSTKL of Hydroacoustic Technology and the University of Southampton in the UK: “Simulation and experimental validation of near-range high-speed hydroacoustic millimeter wave communication” [近程高速水声毫米波通信仿真与试验验证].⁷⁶

65	Embry-Riddle Aeronautical U (US) U of Houston (US)	2017	Research Collab	Sensors			HEU
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Research collaboration on underwater wireless sensor networks between the DSTKL of Hydroacoustic Technology and with researchers from the University of Houston and Embry-Riddle Aeronautical University.⁷⁷

66	Université Libre de Bruxelles (BEL)	2016	Conference	Acoustics		CSSC	HEU
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2016 IEEE Oceanic Engineering Society China Marine Acoustics Symposium [IEEE/OES 中国海洋声学研讨会]

Co-organized by the DSTKL of Hydroacoustic Technology and DSTKL of Sonar Technology, two PRC maritime defense labs, along with five other acoustics research key labs. These were the Key Labs of Underwater Acoustic Technology, Underwater Acoustic Countermeasures, Underwater Measurement and Control Technology, Acoustic Fields and Acoustic Information, and Ship Vibration and Noise. The event was held in Harbin and co-hosted by Harbin Engineering University and the Belgian university Université Libre de Bruxelles. The Chinese language announcement for this symposium even explicitly connects the hydroacoustic research of this symposium to the PRC's national strategy of becoming an oceanic power for economic development, national sovereignty, and military power.⁷⁸ The event was the brainchild of Professor Yang Desen of HEU, who is also closely associated with the DSTKL of Underwater Acoustic Technology, and Jean-Pierre Hermand of Université Libre de Bruxelles. A similar conference will be held in 2021.⁷⁹

67	MIT (US) Vrije University Brussels (BEL) University Du Maine (FRA)	2013-Ongoing?	Institutional Collab	Acoustics			HEU
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As of 2013, the Underwater Acoustics Engineering College at Harbin Engineering University, which oversees the DSTKL of Hydroacoustic Tech., claims to have undergraduate exchange programs with MIT in the U.S., Vrije University in Belgium, and University Du Maine in France.⁸⁰ It is unclear if these programs are still ongoing, as HEU was placed on a USG export control list in 2020.⁸¹

Defense S&T Key Lab of Hydrodynamics

The Defense S&T Key Lab of Hydrodynamics [水动力学国防科技重点实验室], now known as the National Key Lab of Hydrodynamics [水动力学全国重点实验室], primarily conducts research into ship hull design for surface vessels and submarines. It is subordinate to the state-owned maritime defense conglomerate CSSC, the largest producer of military vessels in the PRC. CSSC is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
68	UMass Amherst (US) Ecole Centrale de Nantes (FRA) U of Duisburg-Essen (GER) Nihon U (JPN) Delft U of Technology (NET) U of Lisbon (POR) National U of Singapore (SIN) Polytechnic U of Catalonia (SPA) U of Strathclyde (UK)	2024	Conference	Maritime Tech		CSSC	

2024 7th Symposium on Computational Marine Hydrodynamics [第七届 CMHL 船舶与海洋工程计算水动力学国际研讨会]

Co-organized by the DSTKL of Hydrodynamics. The event included international experts, including from the U.S. (UMass Amherst, presenting on mooring systems for offshore wind and marine energy), Japan (Nihon University), Spain (Polytechnic University of Catalonia), France (Ecole Centrale de Nantes), Germany (University of Duisburg-Essen), Netherlands (Delft University of Technology), Portugal (University of Lisbon), U.K. (University of Strathclyde), and Singapore (National University of Singapore).⁸²

Defense S&T Key Lab of Hypersonic Ramjet Technology

The Defense S&T Key Lab of Hypersonic Ramjet Technology [高超声速冲压发动机技术国防科技重点实验室] is a military lab conducting research into hypersonic technologies, including propulsion, materials, and aerodynamics, toward the development of new military aircraft, missiles, and space vehicles. It is subordinate to the China Aerodynamics Research and Development Center (CARDC), a PLA research center, and the PLA National University of Defense Technology. Both of these institutions are on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
69	Oklahoma State U (US) Rutgers U (US) U of British Columbia (CAN) University of Lisbon (POR) Russian Academy of Sciences (RUS) National U of Singapore (SIN) Lund U (SWE) British Heat Transfer Soc. (UK) Brunel U of London (UK) Imperial College of S&T (UK) Oxford U (UK) Sheffield Hallam U (UK) U of Leeds (UK) U of Nottingham (UK)	2021	Conference	Aerodynamics, Aerospace, Propulsion	AFEU NUDT PLASSF	CASC	Beihang HEU HIT NUAA NWPU

2021 2nd International Symposium on Thermal-Fluid Dynamics (ISTFD 2021)

Co-organized by the DSTKL of Hypersonic Ramjet Technology, a PRC military research lab, along with Beijing Institute of Technology, the National Key Lab of Plasma Power [等离子体动力学国家重点实验室] (this is likely an alias of the DSTKL of Aviation Plasma Power, a defense lab run by the PLA Engineering University), and Sheffield Hallam University in the U.K, among others. It featured participation from 14 countries, including the U.S., U.K., Canada, Japan, Korea, Portugal, Sweden, Singapore, Russia, South Africa, Egypt, and Oman. Key guests and presenters came from Rutgers University in the U.S., Oxford University, Imperial College of Science and Technology, the British Heat Transfer Society, and Brunel University in the U.K., the University of Pretoria in South Africa, and the Russian Academy of Sciences. Other participants included the University of Lisbon (Portugal), the University of Leeds (U.K.), the National University of Singapore, the University of Nottingham (U.K.), the University of British Columbia (Canada), Oklahoma State University (U.S.), and Lund University (Sweden). PRC participants included the National University of Defense Technology, Harbin Institute of Technology, the PLA Air Force Engineering University, Huazhong University of Science and Technology, Beijing University of Aeronautics and Astronautics, Northwestern Polytechnical University, Nanjing University of Aeronautics and Astronautics, Harbin Engineering University, and the CASC 5th Academy. Research topics included thermal and fluid dynamics, especially numerical theories and methods, experimental techniques and applied research on aerodynamics, combustion, and multiphase flow in conjunction with aviation, aerospace, and energy power.⁸³

70	U of Munich (GER) Japan Society of Aeronautical and Space Sciences (JPN) U of Tokyo (JPN) Korea Aerospace U (KOR) Korean Society of Propulsion Engineers (KOR)	2018	Conference	Aerospace, Materials, Propulsion, Rockets	NUDT PLASSF	AECC CASC	
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2018 9th Asian Joint Conference on Propulsion and Power (AJCPP 2018) [第九届亚洲推进与动力联合会议]

Co-organized by the DSTKL of Hypersonic Ramjet Technology, along with the Chinese Society of Engineering Thermophysics [中国工程热物理学会], Japan Society of Aeronautical and Space Sciences [日本航空与空间科学学会], the Korean Society of Propulsion Engineers [韩国推进工程师协会], and the Xiamen University College of Aeronautics and Astronautics. This regional conference covered vehicle propulsion and power, aerospace/mechanical engineering, thermo-fluid/electromagnetic/plasma physics, structure/material design and fluid mechanics, aero-engine, rocket engine (solid/liquid/hybrid), electric propulsion and advanced propulsion technology, propulsion system and reusable launcher, structure and material technology, engine components and performance (turbomachinery/combustor), combustion/diffusion/turbulent mixing, computational fluid dynamics, measurement technology and control/ground testing, and operability and maintenance. Foreign participants came from Japan, South Korea, Russia, and Germany. This included researchers from the University of Tokyo, Korea Aerospace University, and the University of Munich. PRC participants came from CAS Institute of Engineering Thermophysics, Xi'an Jiao Tong University, CASC China Academy of Launch Vehicle Technology, and AECC.⁸⁴

Defense S&T Key Lab of Information System Security Technology

The Defense S&T Key Lab of Information System Security Technology [信息系统安全技术国防科技重点实验室] is a military lab conducting research into new computer and cyber technologies for the PRC military. It is subordinate to the PLA Academy of Military Sciences, which is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
71	Emory U (US) Florida Atlantic U (US) U of Texas Dallas (US) U of Melbourne (AUS) U of Insubria (ITA) U of Tsukuba (JPN)	2022	Conference	Computer Tech	AMS		NWPU

2022 7th International Conference on Data Science in Cyberspace (IEEE DSC 2022) [第七届国际网络空间数据科学大会]

Co-organized by the DSTKL of Information System Security Technology. It was co-chaired by Zhang Yanchun of Guangzhou University, who was a Thousand Talents Program scholar. The conference focused on the use of big data in cyberspace to improve society and "ensure security." It also featured international participants from Florida Atlantic University in the U.S. and the University of Tsukuba in Japan. Subjects included network attack and defense, situational awareness, deep learning algorithms and applications, intelligent systems, data mining, data security, knowledge representation and discovery, and information management.⁸⁵ Similarly, this lab co-organized the 2021 iteration of this conference, which also included participation from Northwestern Polytechnical University. Foreign speakers came from the U.S. (Emory, University of Texas Dallas), Australia (University of Melbourne), and Italy (University of Insubria).⁸⁶

72	U of Western Australia (AUS)	2015-Ongoing?	Institutional Visits/Exchange	Unknown	NUDT	CETC	
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As of 2015, a researcher of the DSTKL of Information Systems Engineering is affiliated with both this lab and the University of Western Australia. This researcher has worked with other lab researchers on controllability of complex networks.⁸⁷ He has also worked on route planning algorithms for anti-ship missiles.⁸⁸

Defense S&T Key Lab of Information Systems Engineering

The Defense S&T Key Lab of Information Systems Engineering [信息系统工程国防科技重点实验室], now known as the National Key Lab of Information Systems Engineering [信息系统工程全国重点实验室], is a PRC military research lab focused on the development of command & control (C2) and communications systems. It is subordinate to the PLA National University of Defense Technology and the 28th Research Institute of the state-owned defense conglomerate CETC. Both of these institutions are on the BIS entity list.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
72	U of Western Australia (AUS)	2015-Ongoing?	Institutional Visits/Exchange	Unknown	NUDT	CETC	

As of 2015, a researcher of the DSTKL of Information Systems Engineering is affiliated with both this lab and the University of Western Australia. This researcher has worked with other lab researchers on controllability of complex networks.⁸⁹ He has also worked on route planning algorithms for anti-ship missiles.⁹⁰

Defense S&T Key Lab of Infrared Sensing

This lab may have previously been known as the DSTKL of Infrared and Ultraviolet Technology [红外紫外技术国防科技重点实验室] but now appears to be known as the National Key Lab of Infrared Sensing [红外探测全国重点实验室]. It appears to conduct research into the electromagnetic spectrum for military use. It is subordinate to the Chinese Academy of Sciences' Shanghai Institute of Technical Physics, as well as the 211th and 11th Research Institutes of state-owned defense conglomerates Norinco and CETC, respectively. Both Norinco and CETC are on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
73	Northwestern U (US) U of Rochester (US) U of Oulu (FIN) Pisa U (ITA) Hanyang U (KOR) Military U of Technology (POL) Russian Acad. of Sciences (RUS) Nanyang Technological U (SIN) Inst. of Semiconductor Physics (UKR)	2024	Conference	Electromagnetic Tech, Sensing		CETC Norinco	

2024 3rd International Conference on Earth and Space: From Infrared to Terahertz (ESIT 2024) [第三届地球与太空：从红外到太赫兹国际会议]

Co-organized by the National Key Lab of Infrared Sensing, along with the CETC 11th RI, Norinco Kunming Institute of Physics [昆明物理研究所], and others. The conference was focused on infrared, millimeter wave, and terahertz technologies for space exploration, digital earth, and intelligent sensing and cognition (a list of more specific topics is available). Foreign participants came from Northwestern University and the University of Rochester in the U.S., the Military University of Technology in Poland, Pisa University in Italy, Hanyang University in Korea, Institute of Semiconductor Physics in Ukraine, the Russian Academy of Sciences, Nanyang Technological University in Singapore, and the Finnish Geospatial Research Institute and Center for Machine Vision and Signal Analysis at the University of Oulu in Finland.⁹¹

Defense S&T Key Lab of Integrated Avionics Technology

The Defense S&T Key Lab of Integrated Avionics Technology [航空电子系统综合技术国防科技重点实验室], now possibly known as the National Key Lab of Aviation Integrated Electronics and Integrated Systems [航空电子综合与体系集成全国重点实验室], develops avionics for PRC military aircraft and UAVs. It is subordinate to the 615th Research Institute of the PRC state-owned defense conglomerate AVIC. AVIC is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
74	Aviage Systems (US) Collins Aerospace (US) Federal Aviation Admin. (US) Honeywell (US) Wind River Systems (US) Qt Group (FIN) Dassault (FRA)	2023-2024	Conference	AI/ML, Aerospace		AVIC COMAC	

2024 13th Avionics International Forum [2024（第十三届）飞机航空电子国际论坛]

Co-organized by the DSTKL of Integrated Avionics Technology, and intended to promote the development of the PRC's avionics industry. The forum was organized by the Chinese Society of Aeronautics and Astronautics [中国航空学会] along with multiple AVIC and COMAC institutes. Topics included airworthiness standards, intelligent avionics and autonomous control, supply chains, and simulation technology. It appears to be primarily focused on civil aviation but includes dual-use research topics and multiple entities affiliated with military aerospace. International participants included U.S. company Wind River Systems, the U.S. Federal Aviation Administration, and Aviage Systems.⁹² The FAA and U.S. Companies Honeywell and Collins Aerospace, French company Dassault, and Finnish company Qt Group also participated in the 2023 conference.⁹³

Defense S&T Key Lab of Liquid Rocket Engine Technology

The Defense S&T Key Lab of Liquid Rocket Engine Technology [液体火箭发动机技术国防科技重点实验室], now known as the National Key Lab of Aerospace Liquid Propulsion [航天液体动力国家重点实验室], conducts research into rocket propulsion technology for PRC space vehicles and ballistic missiles. It is subordinate to the 11th Research Institute of the state-owned defense conglomerate CASC. CASC is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
75	Unknown (US) Unknown (US) Munich Inst. of Space Propulsion (GER) Unknown (RUS) Unknown (SWE)	2019	Conference	Propulsion, Rockets		CASC	NWPU

2019 International Workshop on Space Propulsion Technology [2019 年空间推进技术国际研讨会]

Co-organized by the DSTKL of Liquid Rocket Engine Technology, along with Northwestern Polytechnical University's DSTKL of Solid Rocket Engine Combustion, Thermal Structure, and Inner Flow Field [燃烧、热结构与内流场重点实验室], the Xi'an National Civil Aerospace Industrial Base [西安国家民用航天产业基地], and Germany's Technical University of Munich Institute of Space Propulsion. The workshop featured participation from unidentified U.S., German, French, Swedish, and Russian researchers. Research topics included combustion, flow and numerical calculations in power devices, as well as liquid engine technology.⁹⁴

76	Sapienza U of Rome (ITA)	2018	Institutional Collab	Propulsion, Rockets		CASC	
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In 2018, the DSTKL of Liquid Rocket Engine Technology claims to have established the China-Italy Joint Laboratory of Liquid Rocket Engine Simulation Technology [中意液体火箭发动机仿真技术联合实验室] with the Sapienza University of Rome.⁹⁵

Defense S&T Key Lab of Marine Corrosion and Protection

The Defense S&T Key Lab of Marine Corrosion and Protection [海洋腐蚀与防护国防科技重点实验室], also known as the National Key Lab of Marine Corrosion and Protection [海洋腐蚀与防护全国重点实验室], conducts research into new materials for military surface vessels. It is subordinate to the 725th Research Institute of the state-owned defense conglomerate CSSC, the largest producer of PRC military vessels. CSSC is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
77	Assn. for Materials Protection and Performance (US) Ohio University (US) Corrosion Soc. of Australia (AUS) RMIT University (AUS) U of New South Wales (AUS) Vrije U Brussels (BEL) Prague U of Chemical Tech. (CZE) Technical U of Denmark (DEN) BASF Coatings GmbH (GER) Geesthacht (GER) German Soci. of Corrosion Protection (GER) Helmholtz-Zentrum Hereon (GER) IIT Bombay (IND) Polytechnic U of Turin (ITA) Ricerca sul Sistema Energetico (ITA) Corrosion Science Soc. of Korea (KOR) Korea University (KOR) Delft U of Technology (NET) University of Coimbra (POR) Jožef Stefan Institute (SLO) British Corrosion Society (UK)	2024	Conference	Maritime Tech, Materials		CSSC	Beihang HEU HIT

2024 22nd International Corrosion Congress [第 22 届世界腐蚀大会]

Co-organized by the DSTKL of Marine Corrosion and Protection, along with the Harbin Institute of Technology, Harbin Engineering University, Beihang University, and multiple other universities, companies, and CAS institutes. Topics of interest included corrosion and protection of oil and gas, atmospheric corrosion, intelligent corrosion control, various coatings, nuclear corrosion, marine corrosion, high-temperature materials and coatings, and numerous other topics. Foreign institutions came from the U.S. (Ohio University, Association for Materials Protection and Performance), U.K. (British Corrosion Society), Australia (RMIT University, University of New South Wales, Corrosion Society of Australia), Germany (BASF Coatings GmbH, Helmholtz-Zentrum Hereon,

Geesthacht, German Society of Corrosion Protection), Netherlands (Delft University of Technology), Italy (Polytechnic University of Turin, Ricerca sul Sistema Energetico), Belgium (Vrije Universiteit Brussel), Denmark (Technical University of Denmark), Czechia (Prague University of Chemical Technology), Portugal (University of Coimbra), Slovenia (Jožef Stefan Institute), Korea (Korea University, Corrosion Science Society of Korea), and India (IIT Bombay), among others. The announcement also lists multiple individual names.⁹⁶

78	International Organization for Ship Standardization and Offshore Technical Committee (INTL)	2023	Institutional Collab	AI/ML, Maritime Tech, Materials		CSSC	
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In 2023, the DSTKL of Marine Corrosion and Protection co-hosted, along with the CSSC 725th RI, a meeting of the International Organization for Ship Standardization and Offshore Technical Committee (ISO/TC8) Working Group on Intelligent Shipping (WG10) and Workshop on International Standards for Intelligent Shipping. It was attended by delegates from the U.S., Italy, Norway, Japan, South Korea, and others. Topics included an international standardization roadmap for intelligent shipping, the implementation process and results of the MEGURI 2040 Autonomous Ship Program of the Japanese industry, the implementation process of the KASS Autonomous Ship Program of the South Korean industry, greenhouse gas emissions reduction in shipping, air pollution prevention and emergency response, and autonomous ships.⁹⁷ Likewise, this lab played a leading role in international standard-setting for corrosion of metals and alloys in simulated deep-sea environments.⁹⁸

Defense S&T Key Lab of Materials Technology in Impact Environments

The Defense S&T Key Lab of Materials Technology in Impact Environments [冲击环境材料技术国防科技重点实验室] develops new materials for munitions, warheads, and armor. It is subordinate to the 52nd Research Institute of state-owned defense conglomerate Norinco, as well as Beijing Institute of Technology, one of the Seven Sons of National Defense. Both institutions are on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/ RI	7S
80	Akron U (US) Northeastern U (US) Princeton U (US) Purdue U (US) U of Utah (US) U of Sydney (AUS) Nanyang Technological U (SIN)	2018	Conference	Materials		Norinco	BIT NUAA NWPU

2018 International Symposium on Advanced Materials Research [2018 年先进材料研究国际研讨会]

Co-organized by the DSTKL of Materials Technology in Impact Environments and featured scholars from multiple countries. U.S. scholars came from Princeton, Purdue, Northeastern, the University of Utah, and Akron University. Researchers also came from Australia (University of Sydney) and Singapore (Nanyang Technological University). PRC researchers came from Beijing Institute of Technology, Northwestern Polytechnical University, and Nanjing University of Aeronautics and Astronautics. Interestingly, a list of topics of interest for this conference listed "military-use materials," but a similar list of topics on the more prominent front page of the announcement does not include this.⁹⁹

81	UC San Diego (US)	2018	Institutional Visits/ Exchange	Unknown		Norinco	BIT
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In 2018, the DSTKL of Materials Technology in Impact Environments was one of several labs that invited a researcher from UC San Diego to come lecture.¹⁰⁰

82	National Glass and Ceramics Lab (FRA)	2017	Institutional Visits/ Exchange	Materials		Norinco	BIT
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In 2017, a researcher from the French National Glass and Ceramics Lab, visited the DSTKL of Materials Technology in Impact Environments, a PRC military materiel lab. The researcher gave a lecture on infrared and thermal (night-vision) imaging technologies and on new materials.¹⁰¹

83	Ludwig Maximilians-Munchen U (GER)	Unknown	Institutional Visits/ Exchange	Unknown		Norinco	BIT
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At an unidentified date, a researcher from the German Ludwig Maximilians-Munchen University who was part of the research team behind the world's first attosecond laser, visited the DSTKL of Materials Technology in Impact Environments. The researcher also discussed long-term cooperation, including the establishment of a joint surface engineering lab between BIT and his university.¹⁰²

110	UC San Diego (US) U of Texas (US) International Society of Impact Engineering (AUS) U of New South Wales (AUS) U of Technology Sydney (AUS) University of Pardubice (CZE) Nexter Munitions (FRA) Impetus Afea Co. (GER) Alliance University (IND) RIT India (IND) Polytechnic U of Milan (ITA) Military Institute of Armament Tech. (POL) Mendeleev U of Chemical Technology (RUS) D. V. Efremov Institute of Electrophysical Apparatus (RUS) Dongguan U of Tech. Singapore (SIN) National U of Singapore (SIN) Chinese Academy of Sciences Switzerland (SWI) Imperial College of S&T (UK) Loughborough U (UK) U of Essex (UK)	2018- 2024	Institutional Collab	Unknown	NUDT AEU NEU	CAEP CASC Norinco	BIT NUST
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See entry 110 under the DSTKL of Space Chemical Power Technology.

Defense S&T Key Lab of Metrology and Calibration Technology

The Defense S&T Key Lab of Metrology and Calibration Technology [计量与校准技术国防科技重点实验室] conducts research into precision measurement technology for use in the aerospace and nuclear fields. It is subordinate to the 203rd Research Institute of the military aerospace conglomerate CASIC, the 304th Research Institute of the military aviation conglomerate AVIC, and the China Institute of Atomic Energy, which is under the state-owned nuclear company CNNC, which produces the PRC's nuclear weapons. All three institutions are on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/ RI	7S
84	International Committee for Weights and Measures (INTL) International Atomic Energy Agency (INTL)	Ongoing?	Institutional Collab	Measurement Tech, Nuclear Tech		AVIC CASIC CNNC	

The DSTKL of Metrology and Calibration Technology is an observer party of the International Committee for Weights and Measures' (ICWM) Consultative Committee for Ionizing Radiation (CCRI) (neutron branch) [国际电离辐射咨询委员会（中子分会）观察员单位] and an International Atomic Energy Agency (IAEA) Secondary Standard Dosimetry Laboratory (SSDL).¹⁰³

Defense S&T Key Lab of Microsystem Technology

The Defense S&T Key Lab of Microsystem Technology [微系统技术国防科技重点实验室] develops microelectromechanical systems (MEMS) for a wide range of applications, including military command, control, and communications (C3) systems and intelligent sensors. It is subordinate to the Chinese Academy of Sciences' Shanghai Institute of Microsystem and Information Technology.

#	Foreign Orgs	Year	Type	Research Topics	PLA	IND/ RI	7S
85	Nemak (GER) TRW Automotive (GER)	Ongoing?	Institutional Collab	Unknown		Norinco	

The DSTKL of Microsystem Technology provides critical research support to a PRC Internet-of-Things company called Scifine, a joint venture between the Chinese Academy of Sciences and PRC defense conglomerate Norinco. Among other things, the company develops sensors, networking, and communications technologies for the PRC military and security apparatus. Scifine claims to have collaboration agreements with the German company Nemak and with TRW Automotive, a former U.S. company now owned by a German company.¹⁰⁴

Defense S&T Key Lab of Nano- and Microfabrication Technology

The Defense S&T Key Lab of Nano- and Microfabrication Technology [微米纳米加工技术国防科技重点实验室], now known as the National Key Laboratory of Advanced Micro- and Nano-Manufacture Technology [微米纳米加工技术全国重点实验室], develops microelectronic mechanical systems (MEMS) for a wide range of uses, including for advanced military semiconductors and computing systems, space vehicles, sensors, and robotics. It is subordinate to Shanghai Jiao Tong University and Peking University.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
86	Unknown (SWE)	2021-Ongoing?	Research Collab	Battery Tech			
The DSTKL of Nano- and Microfabrication Technology is collaborating with an unnamed institution in Gothenburg, Sweden, on advanced energy storage and generation. ¹⁰⁵							
87	Caltech (US) Harvard U (US) MIT (US) Stanford U (US)	2019-Ongoing?	Institutional Collab	Unknown			
The DSTKL of Nano- and Microfabrication Technology claims that its grad students can be recommended to work or study at Harvard, MIT, Stanford, or Caltech in the U.S. ¹⁰⁶							

Defense S&T Key Lab of Nuclear Data

The Defense S&T Key Lab of Nuclear Data [核数据国防科技重点实验室], sometimes known as the China Nuclear Data Center [中国核数据中心], is tasked with both carrying out nuclear data research and making nuclear data readily available to the larger PRC research community. Its research is applied to both nuclear energy and weaponry. It is subordinate to the Institute of Atomic Energy under state-owned nuclear conglomerate CNNC, which produces the PRC's nuclear weapons and is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
88	Tuebingen University (GER)	2024	Research Collab	Nuclear Tech		CNNC	

The China Nuclear Data Center developed an Optical Model of Homospin-Related Nucleon-Nucleus Microscopic Potentials [同位旋相关核子-核微观光学势] with Tuebingen University in Germany.¹⁰⁷

89	Hokkaido University (JPN) Nuclear Data Center of the Korea Atomic Energy Research Institute (KOR) Kyungpook National U (KOR)	2018	Conference	Nuclear Tech		CNNC	
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2018 9th Asian Nuclear Reaction Database Progress Workshop [第九届亚洲核反应数据库进展研讨会]

Two personnel from the DSTKL of Nuclear Data, a PRC nuclear lab, were invited to participate in the 9th Asian Nuclear Reaction Database Progress Workshop in South Korea. The workshop discussed the development of nuclear data centers in Asia, the Experimental Nuclear Reaction Database (EXFOR), and the latest progress of the Nuclear Reaction Data Collaboration Network in Asia (NRDC Asia), and it included participants from Japan (Hokkaido University), Korea (Nuclear Data Center of the Korea Atomic Energy Research Institute, Kyungpook National University), India, Mongolia, Kazakhstan, and Vietnam, as well as the IAEA. The source also reveals that the China Nuclear Data Center is hosting an EXFOR data compilation team. The DSTKL of Nuclear Data used it as an opportunity to learn about the cutting edge in nuclear data measurement, evaluation, and database building.¹⁰⁸

90	International Atomic Energy Agency (INTL)	Ongoing?	Institutional Collab			CNNC	
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The research and data of the DSTKL of Nuclear Data, a PRC nuclear lab, are included in the International Atomic Energy Agency's (IAEA) data, and its database is one of five internationally recognized nuclear databases. The lab's parent institution has an agreement with the IAEA to cooperate in research, expertise, and conference planning.¹⁰⁹

Defense S&T Key Lab of Parallel and Distributed Processing

The Defense S&T Key Lab of Parallel and Distributed Processing [并行与分布处理国防科技重点实验室] is a PRC military lab conducting research into high-performance computing, including for the military's Tianhe line of supercomputers. These supercomputers have been implicated in the PRC's nuclear weapons program, among other military missions. It is subordinate to the PLA National University of Defense Technology, which is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
91	UC Berkeley (US) ETH Zurich (SWI) National Cheng Kung U (TAI) Pingtung U of S&T (TAI) Imperial College London (UK)	2021	Conference	Radar	NUDT		

Radar Target Detection Challenge (ACM ICMR 2021) [雷达目标检测挑战赛]

In 2021, the DSTKL of Parallel and Distributed Processing participated in the Radar Target Detection Challenge (ACM ICMR 2021), where new advanced radar target detection algorithms were developed. Other participants came from the U.S. (UC Berkeley), the U.K. (Imperial College London), Switzerland (ETH Zurich), and Taiwan (National Cheng Kung University, Pingtung University of Science and Technology).¹¹⁰

92	Duke U (US)	2020	Conference	AI/ML	NUDT		
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2020 Integrating AI and Computing Systems [人工智能与计算系] Forum

Co-hosted by the DSTKL of Parallel and Distributed Processing and featured Chinese personnel from military, academic, and private institutions, as well as a speaker from Duke University.¹¹¹

93	Unknown (GER) Unknown (SIN) Unknown (UK)	Ongoing?	Institutional Collab	Unknown	NUDT		
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The DSTKL of Parallel and Distributed Processing, a PRC military research lab, claims to have established long-term cooperative relationships with unidentified academic and research institutes in the UK, Germany, and Singapore.¹¹²

Defense S&T Key Lab of Plasma Physics

The Defense S&T Key Lab of Plasma Physics [等离子体物理国防科技重点实验室], now known as the National Key Lab of Plasma Physics [等离子体物理全国重点实验室], conducts research into nuclear and particle physics for the PRC nuclear program. It is subordinate to CAEP, the lead research institute in the PRC nuclear weapons program. CAEP is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
94	Department of Energy (US) U of Washington (US) École Polytechnique (FRA)	2023	Conference	Nuclear Tech		CAEP	

2023 International Conference on Matter and Radiation at Extremes (ICMRE) [极端条件下的物质与辐射国际会议]

Co-organized by the DSTKL of Plasma Physics, along with Beijing Normal University and CAEP. Research topics included fundamental physics in extreme light, physics of inertial confinement fusion, radiation and hydrodynamics, and high-pressure physics and materials science. The event featured scholars from over 10 countries, including a co-chairman from the French National Centre for Scientific Research and committee members from the U.S. Department of Energy, University of Washington, and École Polytechnique. Several other Western names appeared on the list of Committee members, but their affiliations could not be immediately verified.¹¹³

Defense S&T Key Lab of Precision Guidance and Automatic Target Recognition

The Defense S&T Key Lab of Precision Guidance and Automatic Target Recognition [精确制导自动目标识别国防科技重点实验室] is a military lab researching target recognition systems for radar and missile guidance. It is subordinate to both Shenzhen University and the PLA National University of Defense Technology. The latter is on the BIS Entity List. It may also have a branch at Beihang University, one of the Seven Sons of National Defense, which is also on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
95	American Society for Opto-Electronic Engineering (US)	Ongoing?	Individual Affiliation	Radar	NUDT		

PLA Major General Zhuang Zhaowen, Deputy Director of the DSTKL of Precision Guidance and Automatic Target Recognition, is an expert in automatic target recognition in radars. He is also allegedly a member of the American Society for Opto-Electronic Engineering.¹¹⁴

Defense S&T Key Lab of Precision Hot Processing of Metals

The Defense S&T Key Lab of Precision Hot Processing of Metals [金属精密热加工国防科技重点实验室] develops new materials and manufacturing techniques for military equipment. It is subordinate to Harbin Institute of Technology, one of the Seven Sons of National Defense, which is listed on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
96	U of Waikato (NZ)	2018	Research Collab	Materials			HIT
A researcher from the DSTKL of Precision Hot Processing of Metals collaborated on a research paper on “Advances in the research of metal-intermetallic compound laminated composites” with the University of Waikato, New Zealand ¹¹⁵							
97	U of South Florida (US)	2015-Ongoing?	Research Collab	Materials			HIT
A researcher of the DSTKL of Precision Hot Processing of Metals was a visiting scholar at South Florida University from 2014-2015, and has since written at least four collaborative papers on microwires with researchers from this university. ¹¹⁶							

Defense S&T Key Lab of Radar Signal Processing

The Defense S&T Key Lab of Radar Signal Processing [雷达信号处理国防科技重点实验室], also known as the National Key Lab of Radar Signal Processing [雷达信号处理全国重点实验室], develops advanced radar systems for the PRC military. It is subordinate to Xidian University.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
98	Syracuse U (US) Unknown (FRA) U of Pisa (ITA) Sant'Anna School of Advanced Studies (ITA)	2021	Conference	Radar	NUDT	CETC	

2021 CIE International Radar Conference (Radar 2021) [CIE 国际雷达会议]

Co-organized by the DSTKL of Radar Signal Processing alongside the Chinese Institute of Electronics [中国电子学会]. PRC participants included personnel from the PLA National University of Defense Technology and CETC 38th RI. Foreign participants came from the U.S. (Syracuse University), Italy (University of Pisa, Sant'Anna School of Advanced Studies), and unnamed research institutions in France. Topics included radar imaging, target detection and tracking, target classification and identification, adaptive signal processing, cognitive radar signal processing, clutter and interference suppression, photon radar, and quantum radar.¹¹⁷

99	Akron U (US) Bell Labs (US) Columbia U (US) New York U (US) San Francisco State U (US) Temple U (US) UC Merced (US) U of Maryland (US) U of Oklahoma (US) U of Wollongong (AUS) Parthenope U of Naples (ITA) U of Pisa (ITA) Swiss Federal Technology Institute of Lausanne (SWI) University of Birmingham (UK)	2019	Conference	AI/ML, Radar			
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2019 2nd International Workshop on Signal and Information Intelligent Learning and Processing (SIILP 2019) [信号与信息智能学习与处理国际研讨会]

Co-organized by the DSTKL of Radar Signal Processing. Foreign speakers came to the lab's 111 Plan Base from Columbia University, New York University, University of Maryland, the MESA Lab of UC Merced, Temple University, University of Oklahoma, Akron University, San Francisco State University, and Bell Labs in the U.S., as well as academic institutions from the UK (University of Birmingham), Italy (University of Pisa, Parthenope University of Naples), Switzerland (Swiss Federal Technology Institute of Lausanne), and Australia (University of Wollongong) (a complete list of speakers and topics available). Topics discussed included cognitive learning, deep learning, compressed perception, big data processing, metamaterials, how to improve the intelligence of modeling, and the learning and processing of model parameters in different kinds of signals. The lab hosting this event is implicated in the development of military radars for the PRC military.¹¹⁸

100	Syracuse University (US) University of Pisa (ITA)	2018	Institutional Collab	AI/ML, Radar			
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The DSTKL of Radar Signal Processing has established a 111 Plan Innovation Base [“111 计划”创新引智基地] for "Radar cognitive detection imaging recognition" [雷达认知探测成像识别]. The 111 Plan is a PRC government talent plan with the stated aim of attracting top foreign talent, spurring civilian and military tech transfer. This base has established joint research centers with Syracuse University and the University of Pisa in Italy.¹¹⁹ The Syracuse collaborative center is called the International Center for Information Fusion. According to a Syracuse University press release, this technology can be applied to "health, the environment, and security."¹²⁰ The Pisa collaboration is known as the Joint Center for Cognitive Signal Processing [认知信号处理联合研究中心]. The base is dedicated to the development of radar technology in China, focusing on cognitive detection theory and methods, intelligent radar theory and methods, unmanned aircraft swarm cooperative detection theory and methods, and other topics. It states "introduction of foreign talents" as one of its goals.¹²¹ Liu Hongwei, a prominent PRC researcher developing improved target recognition for military radars, has played a major role in the development of this base.¹²²

101	Bell Labs (US)	2018	Institutional Visits/ Exchange	Computer Tech			
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In 2016, a researcher from Bell Labs in the U.S. was invited by the DSTKL of Radar Signal Processing to speak about his paper, "Recent Advances in Compressive Sensing," focusing on the hardware implementation of video compression-aware cameras and reconstruction algorithms.¹²³

102	Rohde & Schwarz (GER)	2007- Ongoing?	Institutional Collab	Unknown			
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In 2007, the DSTKL of Radar Signal Processing claims to have signed a cooperation agreement with the German high-tech electronics company Rohde & Schwarz.¹²⁴ If true, it is unknown whether this cooperation continued into the ten-year timeframe of this survey or if it remains ongoing.

Defense S&T Key Lab of Reliability & Environmental Engineering Technology

The Defense S&T Key Lab of Reliability & Environmental Engineering Technology [可靠性与环境工程技术国防科技重点实验室], now possibly known as the National Key Lab of Reliability & Environmental Engineering Technology [可靠性与环境工程技术全国重点实验室], conducts research into improving the reliability and engineering of PRC space vehicles, military and civilian aircraft, and maritime vessels. It is subordinate to the 511th Research Institute and the Beijing Institute of Strength and Environment, both under the state-owned military aerospace conglomerate CASC, as well as Beihang University, one of the Seven Sons of National Defense. Both CASC and Beihang are on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/ RI	7S
103	Purdue U (US) Rutgers U (US) Western New England U (US) U of New South Wales (AUS) U of Alberta (CAN) Paris-Saclay U (FRA) Hiroshima U (JPN) International Association for the Advancement of Space Safety Netherlands (NET) U of Otago (NZ) National U of Singapore (SIN) Lulea U of Tech. (SWE)	2024-2025	Conference	Reliability Engineering	NUDT	CASC China Ordnance Society	Beihang BIT NUST

2024 15th International Conference on Reliability, Maintainability and Safety [第十五届国际可靠性维修性安全性会议]

Co-organized by the DSTKL Reliability & Environmental Engineering Tech., along with the Chinese Society of Aeronautics and Astronautics [中国航空学会], China Ordnance Society [中国兵工学会], Beihang University, and others.¹²⁵ While extensive information was not available for the 2024 conference, the 2025 conference will be headlined by the Director of this lab and also feature presentations by researchers from the U.S. (Purdue University, Rutgers University), Japan (Hiroshima University), and Singapore (National University of Singapore). Conference committee members come from the U.S. (Western New England University), Canada (University of Alberta), Australia (University of New South Wales), New Zealand (University of Otago), France (Universite Paris-Saclay), the Netherlands (International Association for the Advancement of Space Safety Netherlands), Sweden (Lulea University of Technology), and Singapore (National University of Singapore), as well as from PRC military-affiliated organizations such as the China Armament Research Institute, PLA National University of Defense Technology, Beihang University, Beijing Institute of Technology, Nanjing University of Science and Technology, and Huazhong University of Science and Technology.¹²⁶

104	Siemens (GER)	2024	Conference	Simulation & Modeling	NUDT	AVIC CASC	Beihang
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6th Chinese Conference on Simulation Technology Applications and Tianjin (Hebei) Low-Altitude Industry Development Summit [第六届中国仿真技术应用大会暨天津（宁河）低空产业发展峰会]

In 2024, personnel of the DSTKL of Reliability & Environmental Engineering Tech. took part in the 6th Chinese Conference on Simulation Technology Applications and Tianjin (Hebei) Low-Altitude Industry Development Summit [第六届中国仿真技术应用大会暨天津（宁河）低空产业发展峰会]. Event organizers included the AVIC China Helicopter Design Institute [中国直升机设计研究所], the PLA National University of Defense Technology's Tianjin Supercomputing Center, and a local PRC branch of German company Siemens.¹²⁷

Defense S&T Key Lab of Remanufacturing Technology

The Defense S&T Key Lab of Remanufacturing Technology [装备再制造技术国防科技重点实验室] is a PRC military research lab focused on improving the manufacturing, service life, and maintenance requirements of military vehicles and other equipment. It is subordinate to the PLA Army Academy of Armored Forces.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
105	University of Technology of Belfort-Montbéliard (FRA)	2024	Conference	Materials	AAAF		Beihang

2024 China Materials Conference E09: Material Surface Engineering Forum [2024 中国材料大会 E09-材料表面工程论坛]

PLA Senior Colonel Zhu Sheng, Director of the DSTKL of Remanufacturing Technology and researcher at the PLA Army Academy of Armored Forces, was a speaker at this forum, which also featured participation from Beihang University and others. A French researcher from the University of Technology of Belfort-Montbéliard was also invited to speak.¹²⁸

106	University of Brighton (UK)	2016	Institutional Visits/Exchange	Manufacturing	AAAF		
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The DSTKL of Remanufacturing Technology hosted a delegation from the U.K. in 2016, including personnel of the U.K. government and the University of Brighton. It was organized by a professor at the University of Brighton, who is currently serving as a visiting scholar at this lab. Cutting edge remanufacturing practices in the U.K. were discussed. The U.K. and PRC delegations agreed to more closely cooperate in research, innovation and technical development, and joint funding and investment (full report on file). No mention is made of the lab's PLA affiliation.¹²⁹ Cooperation between the two sides has reportedly continued into 2018.¹³⁰

Defense S&T Key Lab of Ship Vibrational Noise

The Defense S&T Key Lab of Ship Vibrational Noise [船舶振动噪声国防科技重点实验室] is a PRC military research lab primarily concerned with research into underwater acoustics, in order to reduce submarine and surface vessel noise and improve stealth. Its research has reportedly directly contributed to recent advances in PRC submarine design. It is subordinate to the PLA Naval University of Engineering and the 702nd Research Institute of the state-owned military maritime conglomerate CSSC, which is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
107	Kistler (SWI)	2016	Institutional Visits/ Exchange	Maritime Tech, Measurement Tech, Propulsion, Sensing	NEU	CSSC	

In 2015, the DSTKL of Ship Vibrational Noise hosted personnel from Swiss company Kistler. The personnel gave talks on preloading, assembling, calibration, and application of piezoelectric force sensors, and gave a demonstration based on a certain type of dynamic force plate assembly. The participants discussed measurement methods for propeller pressure micro-pulsation, measurement methods for dynamic force at the input and output of flexible receiver under the condition of flexible foundation, the design and production of multi-component dynamic force plates, and calibration of the intrinsic frequency of dynamic force plate and its influence correction methods. According to a press release, the discussion improved lab personnel understanding of dynamic force measurement technology and sensor use, development of dynamic force plates and applications, and how to improve lab testing facilities.¹³¹

Defense S&T Key Lab of Solid Rocket Engine Combustion, Thermal Structure, and Inner Flow Field

The Defense S&T Key Lab of Solid Rocket Engine Combustion, Thermal Structure, and Inner Flow Field [固体火箭发动机燃烧、热结构与内流场国防科技重点实验室], now known more simply as the National Key Lab of Solid Propulsion [固体推进全国重点实验室], conducts research on propulsion systems for the PRC space and ballistic missile programs. It is subordinate to the 41st Research Institute of state-owned military aerospace conglomerate CASC and Northwestern Polytechnical University, one of the Seven Sons of National Defense. Both institutions are on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
108	Purdue U (US) Stanford U (US) CERFACS (FRA) ONERA (FRA) Bundeswehr U Munich (GER) Technical U of Munich (GER) U of Stuttgart (GER) Moscow State U (RUS) Lund U (SWE)	2019	Conference	Propulsion, Rockets		CASC	NWPU

2019 International Workshop on Space Propulsion

Co-organized by the DSTKL of Solid Rocket Engine Combustion, Thermal Structure, and Inner Flow Field, along with the Xi'an National Civilian Aerospace Industrial Base [西安国家民用航天产业基地], the CASC Xi'an Aerospace Propulsion Research Institute (41st RI) Key Lab of Liquid Rocket Engine Technology [西安航天动力研究所液体火箭发动机技术重点实验室], and Germany's Technical University of Munich. Conference participants included Stanford University, Bundeswehr University Munich (a major German military academy), University of Stuttgart, CERFACS (a major European research institute for high-performance computation), ONERA (the French national aerospace research center), Sweden's Lund University, and Moscow State University.¹³² The 2018 conference, held in Harbin, also featured He Guoqiang of the same DSTKL as a speaker, along with multiple international speakers, including a rocket propellant expert of Purdue University.¹³³

75	Unknown (US) Unknown (US) Munich Inst. of Space Propulsion (GER) Unknown (RUS) Unknown (SWE)	2019	Conference	Propulsion, Rockets		CASC	NWPU
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See entry 75 under the Defense S&T Key Lab of Liquid Rocket Engine Technology.

Defense S&T Key Lab of Space Chemical Power Technology

The Defense S&T Key Lab of Space Chemical Power Technology [航天化学动力技术国防科技重点实验室] develops propellants for the PRC space and ballistic missile programs. It is subordinate to the 42nd Research Institute of state-owned military aerospace conglomerate CASC, which is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
109	U of Maryland (US) Goodrich (US) Exodynamics Tech. Inc. (US) U of Pardubice (CZE) Tel Aviv U (ISR) Polytechnic U of Milan (ITA) Unknown (KOR) Warsaw U of Technology (POL) Unknown (RUS) Imperial College of S&T (UK)	2019	Conference	Munitions, Propulsion, Rockets		CAEP CASC China Ordnance Society Norinco	NUST

13th International Autumn Symposium on Propellants, Explosives and Pyrotechnics [第13届国际推进剂、炸药、烟火技术秋季研讨会]

Co-organized by the DSTKL of Space Chemical Power Technology, along with the China Ordnance Society, Nanjing University of Science and Technology, CAEP Institute of Chemical Materials, Norinco Xi'an Institute of Modern Chemistry, Xi'an Institute of Aerospace Dynamics Technology, Shaanxi Institute of Applied Physical Chemistry, and several other institutions. The conference was attended by 200 delegates (38 from abroad) from 12 countries: U.S., Russia, Canada, U.K., Italy, Poland, India, Czechia, Israel, Korea, Belarus, and Singapore. The event was co-chaired by the chief editor of the Journal of Energetic Materials (and current employee of the U.S. University of Maryland Center for Research in Extreme Batteries).¹³⁴ An employee of U.S. companies Goodrich and Exodynamics Technology Inc., participated.¹³⁵ Other participants included a U.K. individual of the U.K. Imperial College of Science and Technology. Other speakers came from Italy (Polytechnic University of Milan), Poland (Warsaw University of Technology), Czechia (University of Pardubice), Israel (Tel Aviv University), at least three researchers from Korea, and multiple Russian researchers. Several of the international participants also participated in the 1st International Conference on Defence Technology in the year prior.¹³⁶

110	UC San Diego (US) U of Texas (US) International Society of Impact Engineering (AUS) U of New South Wales (AUS) U of Technology Sydney (AUS) University of Pardubice (CZE) Nexter Munitions (FRA) Impetus Afea Co. (GER) Alliance University (IND) RIT India (IND) Polytechnic U of Milan (ITA) Military Institute of Armament Tech. (POL) Mendeleev U of Chemical Technology (RUS) D. V. Efremov Institute of Electrophysical Apparatus (RUS) Dongguan U of Tech. Singapore (SIN) National U of Singapore (SIN) Chinese Academy of Sciences Switzerland (SWI) Imperial College of S&T (UK) Loughborough U (UK) U of Essex (UK)	2018- 2024	Institutional Collab	Unknown	NUDT AEU NEU	CAEP CASC Norinco	BIT NUST
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International Conference on Defence Technology [国际防务技术大会]

Co-organized by the DSTKL of Space Chemical Power Technology, the DSTKL of Ballistics, and the DSTKL of Materials Tech. in Impact Environments, all three of which are PRC defense research labs. Other organizers included Norinco and several of its subsidiaries, CAEP, Beijing Institute of Technology, and Nanjing University of Science and Technology. The National University of Defense Technology, PLA Army Engineering University, and PLA Naval Engineering University also participated. The conference attracted over 70 foreign participants, including those from the U.S., U.K., France, Germany, Italy, Singapore, Czechia, Australia, Poland, Russia, and others. Several of these spoke on research topics that were clearly military in nature. The conference was co-chaired by a Professor of the U.K. Imperial College of Science and Technology, who stated that the conference “allows exposure to the most current state-of-the-art technology in defense science [and] provides opportunities for interaction with some of the world’s leading experts in the field of defense science.” Likewise, PRC sources make clear that the conference is intended to improve the domestic arms industry.¹³⁷ Other foreign participants and presenters came from the University of Texas Institute of Advanced Technology, Polytechnic University of Milan (speaking on nanoenergetic ingredients for solid rocket propulsion), French defense company Nexter Munitions speaking on armour-piercing fin-stabilized discarding sabot ammunition technologies), the Polish Military Institute of Armament Technology (speaking on passive, reactive, and hybrid armor), the Czech University of Pardubice Institute of Energetic Materials (speaking on explosive mixtures), Australia’s University of New South Wales (speaking on autonomous navigation for surveillance and communication UAVs), Loughborough University

(speaking on dynamic damage to composite materials), and the National University of Singapore (speaking on projectile impact). Other research topics included electromagnetic launch, energy-containing materials, manufacturing process and management and material behavior and properties, impact dynamics, optoelectronic informatization and other defense technologies.¹³⁸

While less information is available about the 2024 conference, it reportedly included participants from the U.S., U.K., Australia, Italy, Turkey, Singapore, and Russia, among others.¹³⁹ A list of lectures includes researchers from the Chinese Academy of Sciences Switzerland, Mendeleev University of Chemical Technology and the D. V. Efremov Institute of Electrophysical Apparatus of Russia, Singapore Dongguan University of Technology, and Australia's International Society of Impact Engineering, as well as institutions in Malaysia and South Africa.¹⁴⁰ Curiously, a website advertising the event also lists a German researcher from Impetus Afea Co. as a speaker,¹⁴¹ and a LinkedIn post seemingly confirms his presence at the event.¹⁴² Indian researchers came from Alliance University (speaking on defense applications of unmanned aerial system swarming)¹⁴³ and RIT India.¹⁴⁴ Committee members also came from UC San Diego, University of Technology Sydney, Polytechnic University of Milan, University of New South Wales Canberra, University of Essex, and National University of Singapore.¹⁴⁵

Defense S&T Key Lab of Space Flight Dynamics Technology

The Defense S&T Key Lab of Space Flight Dynamics Technology [航天飞行动力学技术国防科技重点实验室] is a military lab developing new technologies primarily for the PRC space program. It is subordinate to the PLA Beijing Aerospace Control Center and Northwestern Polytechnical University, one of the Seven Sons of National Defense. Northwestern Polytechnical University is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
111	Stevens Institute of Tech. (US) U of Munich (GER) Delft U of Technology (NET)	2018- Ongoing?	Institutional Collab	Unknown	BACC		NWPU

Since at least 2018, the DSTKL of Space Flight Dynamics Technology claims to have signed cooperation agreements with Stevens Institute of Technology in the U.S., Delft University of Technology in the Netherlands, and Germany's Technical University of Munich.¹⁴⁶

112	German Research Center for Geosciences (GER)	2016	Research Collab	Aerospace, Space Vehicles	BACC		NWPU
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The DSTKL of Space Flight Dynamics Technology has collaborated with the German Research Center for Geosciences on thrust maneuvers for uncooperative space objects.¹⁴⁷

113	TU Braunschweig (GER)	2015	Institutional Collab	Unknown	BACC		NWPU
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In 2015, the DSTKL of Space Flight Dynamics Technology held the joint NPU-TUBS Aerospace Workshop with Germany's TU Braunshweig.¹⁴⁸

114	Stevens Institute of Tech. (US) Utah State U (US) U of Toronto (CAN) York U (CAN)	2015- 2017	Institutional Visits/ Exchange	Unknown	BACC		NWPU
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	Loughborough U (UK) U of Strathclyde (UK)						
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Researchers from the DSTKL of Space Flight Dynamics Technology claim to have both visited and been visited by delegations and lecturers from Utah State University, Stevens Institute of Technology, U.K. University of Strathclyde and Loughborough University, Canada's University of Toronto and York University.¹⁴⁹ Contact beyond 2017 was not recorded on the lab's website.

115	MIT (US) Stevens Institute of Tech (US) Texas Tech U (US) U of Chicago (US) Utah State U (US) KU Leuven (BEL) U of Alberta (CAN) U of Toronto (CAN) York U (CAN) U of Wurzburg (GER) U of Pisa (ITA) Delft U of Technology (NET) Polytechnic U of Catalonia (SPA)	2013-2017	Institutional Visits/ Exchange	Unknown	BACC		NWPU
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Between 2013 and 2017, the DSTKL of Space Flight Dynamics Technology claims to have sent multiple grad students for study and training in foreign institutions. These included institutions in the U.S. (MIT, Stevens Institute of Technology, Utah State, University of Chicago, Texas Tech), Canada (University of Toronto, York University, University of Alberta), Netherlands (Delft University of Technology), Italy (University of Pisa), Spain (Polytechnic University of Catalonia), Germany (University of Wurzburg), and Belgium (KU Leuven).¹⁵⁰ Contact beyond 2017 was not recorded on the lab's website.

Defense S&T Key Lab of Space Flight Intelligent Control Technology

The Defense S&T Key Lab of Space Flight Intelligent Control Technology [宇航智能控制技术国防科技重点实验室], now known as the National Key Lab of Space Flight Intelligent Control Technology [宇航智能控制技术全国重点实验室], conducts research into guidance and control technology for space vehicles and precision missiles. It is subordinate to the 12th Research Institute of the state-owned military aerospace conglomerate CASC. CASC is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
116	Sino-British Joint Laboratory of Advanced Control System Technology (UK)	Ongoing?	Institutional Collab	Aerospace		CASC	

Personnel of the DSTKL of Space Flight Intelligent Control Technology are affiliated with the Sino-British Joint Laboratory of Advanced Control System Technology [中英先进控制系统技术联合实验室]. A senior researcher of the PRC defense research lab also serves as the Director of the Chinese portion of the joint Sino-British lab.¹⁵¹

Defense S&T Key Lab of Specialized Integrated Circuits

The Defense S&T Key Lab of Specialized Integrated Circuits [专用集成电路国防科技重点实验室], now possibly known as the National Key Lab of Solid-State Microwave Devices and Circuits [固态微波器件与电路全国重点实验室], conducts research into semiconductor technology, including for military radar and communications equipment. It is subordinate to the 13th Research Institute of the state-owned military electronics conglomerate CETC.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
117	National Institute of Standards and Technology (US) North Carolina State U (US) PowerAmerica (US) Rensselaer Polytechnic Inst (US) UC Santa Barbara (US) U of Virginia (US) Virginia Tech (US) Wolfspeed (US) RMIT U (AUS) U of Sydney (AUS) U of Toronto (CAN) Aixtron AG (GER) Fachhochschule Ingolstadt (GER) ELCOMA (IND) National Inst. for Materials Science (JPN) Nippon Telegraph and Telephone (JPN) Osaka Metropolitan U (JPN) Tokushima U (JPN) Waseda U (JPN) Dong-eui U (KOR) Ampleon (NET) Delft U of Technology (NET) King Abdullah U of S&T (SAU) Lund U (SWE) Chang Gung U (TAI) National Chiao Tung U (TAI) National Taiwan U (TAI) National Taiwan U of S&T (TAI) National Yang Ming Chiao Tung U (TAI)	2024	Conference	Semiconductors	PLA General Hospital PLACDC	CAS-CHOFMP CAS-SINN CAS-IS CASC CETC Huawei ZTE	HIT

2024 21st Sino-International Forum on Semiconductor Lighting [第十四届中国国际半导体照明论坛] and International Forum for 3rd Generation Semiconductors [国际第三代半导体论坛] (IFWS 2024)

Personnel of the DSTKL of Specialized Integrated Circuits were involved in organizing the 21st iteration of the same conference in 2024. Notable PRC participants included the Harbin Institute of Technology, University of Science and Technology of China, Huazhong University of Science and Technology, PLA General Hospital, PLACDC, CASC 1st Academy, CETC 13th, 46th, 48th, 55th RI, CAS institutes known to be involved in military research, such as the CAS Changchun Institute of Optics, Fine Mechanics and Physics [春光学精密机械与物理研究所], CAS Suzhou Institute of Nano-tech and Nano-bionics [中国科学院苏州纳米技术与纳米仿生研究所], CAS Institute of Semiconductors [半导体研究所], and several other CAS Institutes, private companies such as Huawei and ZTE, and multiple chip manufacturing companies such as Advanced Micro-Fabrication Equipment [中微半导体]. Foreign organizers and participants came from the U.S. (UC Santa Barbara, NC State University, PowerAmerica, Virginia Tech, University of Virginia, Rensselaer Polytechnic Institute, NIST, Wolfspeed), Canada (University of Toronto), Germany (Fachhochschule Ingolstadt, Aixtron AG), Netherlands (Delft University of Technology, Ampleon), Australia (University of Sydney, RMIT University), Japan (Tokushima University, Osaka Metropolitan University, Waseda University, National Institute for Materials Science, Nippon Telegraph and Telephone), Sweden (Lund University), Taiwan (National Taiwan University, National Chiao Tung University, Chang Gung University, National Taiwan University of Science and Technology, National Yang Ming Chiao Tung University), Korea (Dong-eui University), Saudi Arabia (King Abdullah University of Science and Technology), and India (ELCOMA).¹⁵²

Defense S&T Key Lab of Surface Physics and Chemistry

The Defense S&T Key Lab of Surface Physics and Chemistry [表面物理与化学国防科技重点实验室] conducts research into new materials for the PRC nuclear program. It is subordinate to CAEP, the state research institute that oversees the PRC nuclear weapons program. CAEP is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
118	Queen Mary University London (UK)	2024	Institutional Visits/Exchange	Nuclear Tech		CAEP	

In 2024, a student group from Queen Mary University of London's campus at Northwestern Polytechnical University visited the DSTKL of Surface Physics and Chemistry as part of a patriotic field trip to learn about and be inspired by China's nuclear weapons program.¹⁵³

119	Thermo Fisher Scientific (US) Analytik Jena (GER)	2017	Conference	Spectrometry		CAEP	
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2017 Inorganic and Isotope Mass Spectrometry Conference of the Chinese Society of Mass Spectrometry [2017 年中国质谱学会无机及同位素质谱学术会议]

Co-organized by the DSTKL of Surface Physics and Chemistry, along with the CAEP Institute of Materials Research, Sichuan Provincial Hydrogen Isotope Engineering and Technology Research Center [四川省氢同位素工程技术研究中心], Antpedia (Beijing) Technology Development Co. [安特百科（北京）技术发展有限公司], and others. The conference focused on inorganic mass spectrometry, isotope mass spectrometry, stable isotope mass spectrometry, and instrumentation development. Participants apparently included U.S. company Thermo Fisher Scientific and German company Analytik Jena.¹⁵⁴

120	Danish Academy of Sciences (DEN) New Zealand Royal Academy of Engineering (NZ)	2016	Conference	Materials		CAEP	
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2016 7th International Conference on Surface Engineering [第七届表面工程国际会议]

Co-organized by the DSTKL of Surface Physics and Chemistry. Participants included individuals from the Danish Academy of Sciences and the New Zealand Royal Academy of Engineering.¹⁵⁵

121	Mines Nancy (FRA) U of Metz (FRA) National Taiwan U of S&T (TAI)	Ongoing?	Individual Affiliation	Materials, Semiconductors		CAEP	
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A researcher at Dalian University of Technology who appears to have an affiliation with the DSTKL of Surface Physics and Chemistry also has close working relationships with Mines Nancy and the Université de Metz in France, and the National Taiwan University of Science and Technology. This researcher focuses on high-temperature Cu-based superalloys for military-industrial use, an area in which the PRC lacks independent IP, as well as semiconductor-type metal silicide thin-film materials. It is unclear how close the research she does with these international academics is to her military research.¹⁵⁶

Defense S&T Key Lab of Tunable Gas Lasers

The Defense S&T Key Lab of Tunable Gas Lasers [可调谐气体激光国防科技重点实验室] primarily conducts research into laser communications equipment for the PRC military and civilian space programs. It is subordinate to Harbin Institute of Technology, one of the Seven Sons of National Defense, which is listed on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
122	Avantes (NET)	2020	Institutional Visits/ Exchange	Spectrometry			HIT

In late 2020, the DSTKL of Tunable Gas Lasers received a visit from the Dutch company Avantes, which specializes in fiberoptic spectroscopy instruments. Avantes personnel gave a talk outlining their spectrometer design and received a tour of the laboratory.¹⁵⁷

Defense S&T Key Lab of UAV Special Technology

The Defense S&T Key Lab of UAV Special Technology [无人机特种技术国防科技重点实验室], now known as the National Key Lab of Unmanned Flight Vehicle Technology [无人飞行器技术国家重点实验室], is a military lab developing new UAV systems. It is subordinate to the PLA Air Force Engineering University and Northwestern Polytechnical University, one of the Seven Sons of National Defense. Northwestern Polytechnical University is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
123	Georgia Institute of Tech. (US) Mind Research Institute (US) UC Berkely (US) U of Nevada (US) U of Texas at Arlington (US) Australian National U (AUS) U of Guelph (CAN) York U (CAN) U of Freiburg (GER) U of Hamburg (GER) Technion–Israel Institute of Technology (ISR) Delft U of Technology (NET) National U of Singapore (SIN) Nanyang Tech. U (SIN) Cranfield U (UK) Institution of Engineering and Technology (UK) U of Lancaster (UK) Loughborough U (UK) U of Cambridge (UK) U of Manchester (UK)	2024	Conference	AI/ML, Communications, Unmanned Systems	AFEU NUDT PLAN Research Academy	CASIC	Beihang BIT NUST NWPU

2024 International Conference on Autonomous Unmanned Systems (ICAUS 2024) [2024 第四届国际自主无人系统大会]

Co-organized by the DSTKL of UAV Special Technology. Other major organizers and sponsors included the National University of Defense Technology, Northwestern Polytechnical University, Nanjing University of Science and Technology, several other PRC universities and companies, and the U.K. Institution of Engineering and Technology.¹⁵⁸ Conference organizers and committee members for the 2022 iteration of the conference came from the U.S. (University of California (presumed to be Berkeley), University of Texas at Arlington, University of Nevada, Georgia Institute of Technology, Mind Research Institute), U.K. (Loughborough University, University of Manchester, Cranfield University, University of Cambridge, University of Lancaster), Germany (University of Hamburg, University of Freiburg), Australia (Australian National University), Canada (University of Guelph, York University), the Netherlands (Delft University of Technology), Israel (Technion–Israel Institute of Technology), and Singapore (National University of Singapore, Nanyang Technological University). PRC participants came from

the National University of Defense Technology, the PLA Naval Research Academy, the PLA Air Force Engineering University, CASIC, Beihang, Beijing Institute of Technology, and Northwestern Polytechnical University. Research topics included autonomous unmanned air, ground, space, and maritime systems, intelligent environment sensing, navigation and positioning, communications and networking, payload technology, brain-computer fusion, AI algorithms, unmanned system countermeasures, and bionic technology.¹⁵⁹

124	American Inst. of Aeronautics and Astronautics (US) Royal Aeronautical Society (UK)	2016	Conference	Unmanned Systems	AFEU		NWPU
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2016 China-International UAV System Conference and Exhibition [中国国际无人驾驶航空器系统大会暨展览]

Supported in part by the DSTKL of UAV Special Technology and also featured support from the American Institute of Aeronautics and Astronautics (AIAA) and U.K. Royal Aeronautical Society.¹⁶⁰

125	Kingston U (UK)	Ongoing?	Institutional Collab	Unknown	AFEU		NWPU
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The DSTKL of UAV Special Technology claims to have a "long-term cooperative relationship" with Kingston University in the U.K., and possibly other unnamed institutions.¹⁶¹

Defense S&T Key Lab of Underwater Information and Control

The Defense S&T Key Lab of Underwater Information and Control [水下信息与控制国防科技重点实验室], now known as the National Key Lab of Underwater Information and Control [水下信息与控制全国重点实验室], develops underwater information processing and control systems for military submarines. It is subordinate to state-owned military maritime conglomerate CSSC, the PRC's largest producer of military vessels, and Northwestern Polytechnical University, one of the Seven Sons of National Defense. Both institutions are on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
126	George Mason U (US)	2018	Institutional Visits/ Exchange	Communications		CSSC	NWPU

At least one researcher from George Mason University seems to have a close connection to the DSTKL of Underwater Information and Control, holding a discussion of mid-communications sparse signal processing [通信中的稀疏信号处理报告会] at NWPU.¹⁶²

127	U of North Carolina (US)	2018	Institutional Visits/ Exchange	Unknown		CSSC	NWPU
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A professor from the University of North Carolina came and spoke at the DSTKL of Underwater Information and Control, possibly on the topic of neuromapping.¹⁶³

Defense S&T Key Lab of Underwater Measurement and Control Technology

The Defense S&T Key Lab of Underwater Measurement and Control Technology [水下测控技术国防科技重点实验室] conducts research into various fields relevant to naval warfare, including hydroacoustics, detection and tracking of maritime targets, and maritime guidance, navigation, and control. It is subordinate to state-owned military maritime conglomerate CSSC, the largest producer of PRC military vessels. CSSC is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
128	MIT (US) UMass Amherst (US) National Taiwan U (TAI) Institute of Electrical and Electronics Engineers (INTL)	2021	Conference	Acoustics		CSSC	

China International Conference on Ocean Acoustics and Science and Technology Competition on Hydroacoustic and Ocean Technology [2021 年中国海洋声学国际会议暨水声与海洋技术科技竞赛]

Co-organized by the DSTKL of Underwater Measurement and Control Technology, along with the Institute of Electrical and Electronics Engineers (IEEE) and multiple key labs. Participants came from 7 countries/regions, including MIT and UMass (presumed to be Amherst) in the US, and National Taiwan University.¹⁶⁴

61	Catholic U (US) Lehigh U (US) Northeastern U (US) Pennsylvania State U (US) U of Hawaii (US) UMass Dartmouth (US) U of Mississippi (US) U of Washington (US) U of Victoria (CAN) U of Oslo (NOR) University of Algarve (POR) National Taiwan U (TAI) Loughborough U (UK) U of Bath (UK) Institute of Electrical and Electronics Engineers (INTL)	2021	Conference	Acoustics	DNA PLAN Research Academy		HEU
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See entry 61 under the Defense S&T Key Lab of Hydroacoustic Technology.

Defense S&T Key Lab of Vacuum Technology and Physics

The Defense S&T Key Lab of Vacuum Technology and Physics [真空技术与物理国防科技重点实验室] conducts research into improving the lifespan and reliability of space vehicles. It is subordinate to the 510th Research Institute of the state-owned military aerospace conglomerate CASC. CASC is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
129	Brazilian Space Agency (BRA)	Ongoing?	Research Collab	Aerospace		CASC	

The predecessor lab of the DSTKL of Vacuum Technology and Physics developed space optical thin films used in China and Brazil's Earth Resources Satellite series of satellites, including infrared bandpass filters and transmittance enhancement films for the infrared multi-spectral scanner.¹⁶⁵

Defense S&T Key Lab of Vehicle Transmission

The Defense S&T Key Lab of Vehicle Transmission [车辆传动国防科技重点实验室] develops armored and other heavy-duty military vehicles. It is subordinate to the 201st Research Institute of state-owned military conglomerate Norinco and Beijing Institute of Technology, one of the Seven Sons of National Defense. Both institutions are listed on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
130	Ansys (US) BRG (US) MSC Software (US) Pratt & Whitney (US) Texas Tech U (US) U of Virginia (US) RENK (GER) Siemens (GER) Technical U of Munich (GER) Dassault (FRA) Mitsubishi (JPN) Bauman Moscow State Technical U (RUS)	2019	Conference	Ground Vehicles		Norinco	Beihang BIT

2019 International Conference on Rotating Machinery Transmission and Control (RMTC2019) [2019 年旋转机械传动与控制国际会议]

Co-organized by the DSTKL of Vehicle Transmission. The conference included U.S. participants from the University of Virginia, Texas Tech, Pratt & Whitney, BRG, Ansys, and MSC Software, as well as Germany (Technical University of Munich, Siemens, RENK), France (Dassault), Japan (Mitsubishi), and Russia (Bauman Moscow State Technical University). PRC participants included Norinco, Beihang University, and Beijing Institute

of Technology. The article also states that BIT and the University of Virginia have a Joint Laboratory for Rotating Machinery [京理工大学-弗吉尼亚大学旋转机械联合实验室].¹⁶⁶

Defense S&T Key Lab of Vessel Integrated Power Technology

The Defense S&T Key Lab of Vessel Integrated Power Technology [舰船综合电力技术国防科技重点实验室], now known as the National Key Lab of Electromagnetic Energy [电磁能技术全国重点实验室], is a military lab developing advanced electrical power systems for PRC military vessels, allowing for the installation of new propulsion, sensor, and weapons systems requiring high amounts of power. It is subordinate to the PLA Naval Engineering University and the 712th Research Institute of the state-owned military maritime conglomerate CSSC, which is on the BIS Entity List.

Entry #	Foreign Orgs	Year	Type	Research Topics	PLA	IND/RI	7S
131	UC Merced (US)	2015	Institutional Visits/Exchange	Unknown	CSSC		

Personnel of the CSIC (now CSSC) 712th RI, a defense company which also oversees the DSTKL of Vessel Integrated Power Technology, visited UC Merced in 2015 to discuss possible cooperation.¹⁶⁷

Part 3: Contact with PRC defense research labs, by Nation and Institution

This section lists all 426 of the foreign institutions appearing in the dataset, organized by country. It includes information on the year(s), type of contact, broad research topics, and the names of any Defense S&T Key Labs, military, industry, research institutes, and Seven Sons with which the foreign institution had contact.

United States

2COMU Inc.

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST

Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

Akron University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
10	2007-2016	Institutional Collab	Aerodynamics	Airfoil and Blading Dynamics			NWPU
Alleged creation of a joint research base with PRC defense lab. See Entry 10.							
80	2018	Conference	Materials	Materials Tech. in Impact Environments		Norinco	NUAA NWPU
Participation in 2018 International Symposium on Advanced Materials Research. See entry 80.							
99	2019	Conference	AI/ML Radar	Radar Signal Processing			

Participation in 2nd Intl. Workshop on Signal and Information Intelligent Learning and Processing. See entry 99.

American Institute of Aeronautics and Astronautics

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
21	2018-Ongoing?	Individual Affiliation	Unknown	Aviation Plasma Dynamics	AFEU		
Alleged affiliation with PLA Air Force defense lab researcher. See Entry 21.							
124	2016	Conference	Unmanned Systems	UAV Special Tech.	AFEU	NWPU	

Participation in 2016 China-International UAV System Conference and Exhibition. See entry 124.

American National Standards Institute

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
46	2015-2019	Conference	Electromagnetic Tech	Electromagnetic Environment Effects	AEU	CASC SASTIND	
Participation in China-US International Symposium on Electrostatic Protection and Standardization. See entry 46.							

American Society for Opto-Electronic Engineering

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
95	Ongoing?	Individual Affiliation	Radar	Precision Guidance and Automatic Target Recognition	NUDT		
Alleged affiliation with PLA Major General and military defense lab official. See entry 95.							

American Vertical Flight Society

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
56	Ongoing?	Institutional Collab	Helicopter Tech	Helicopter Rotor Dynamics			NUA A
Alleged affiliation with PRC defense research lab. See entry 56.							

Ansys

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
130	2019	Conference	Ground Vehicles	Vehicle Transmission		Norinco	Beihang BIT
Participation in 2019 International Conference on Rotating Machinery Transmission and Control. See entry 130.							

Arizona State University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST
Participation in 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.							

Association for Materials Protection and Performance

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Maritime Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in 2024 22nd International Corrosion Congress. See entry 77.

Aviage Systems

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
74	2024	Conference	Aerospace, AI/ML	Integrated Avionics Tech.		AVIC COMAC	

Participation in 2024 13th Avionics International Forum. See entry 74.

Bell Labs

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
99	2019	Conference	AI/ML, Radar	Radar Signal Processing			
101	2016	Institutional Visits/Exchange	Computer Tech	Radar Signal Processing			

Visit and lecture at PRC defense research lab. See entry 101.

Bethel University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT
50	2020	Conference	Communications	Communications Countermeasures Tech.		CETC	

Participation in 2024 and 2025 International Conference on Communication Software and Networks. See Entry 31.

Participation in 2020 12th International Conference on Communication Software and Networking. See entry 50.

BRG

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
130	2019	Conference	Ground Vehicles	Vehicle Transmission		Norinco	Beihang BIT

Participation in 2019 International Conference on Rotating Machinery Transmission and Control. See entry 130.

California Institute of Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
47	2023	Conference	Nanotechnology	Electromechanical Engineering and Control	NUST	CETC CSSC Norinco	Beihang BIT HIT NWPU

Participation in 2023 25th Annual Conference and 14th International Conference of the Chinese Society for Micron Nanotechnology. See entry 47.

87	2019-Ongoing?	Institutional Collab	Unknown	Nano- and Micro-Fabrication Tech.			
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Alleged work/study agreement with PRC defense research lab. See entry 87.

Case Western Reserve University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
4	2024	Conference	Hypersonic Tech, Propulsion, Rockets	Aero-Engine Aerodynamics and Thermodynamics	AFEU AMS SEU Unit 32178	AECC AVIC CAEP	Beihang BIT HEU NUST NWPU

Participation in 9th National Young Scholar Meeting on Combustion Research. See entry 4.

Catholic University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
61	2021	Conference	Acoustics	Hydroacoustic Countermeasure Technology Underwater Measurement and Control Technology	NRA		HEU

Participation in 2021 IEEE/OES China Ocean Acoustics Conference. See entry 61.

Cisco

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
29	Ongoing?	Institutional Collab	Unknown	Communications Anti-Jamming Tech.			

Participation in 2019 2nd International Workshop on Signal and Information Intelligent Learning and Processing. See entry 29.

Collins Aerospace

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
74	2024	Conference	Aerospace, AI/ML	Integrated Avionics Tech.		AVIC COMAC	

Participation in 2024 13th Avionics International Forum. See entry 74.

Columbia University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
27	Ongoing?	Institutional Collab	Communications	Communications Anti-Jamming Tech.			
Alleged joint graduate student training program with PRC defense research lab. See entry 27.							
99	2019	Conference	AI/ML, Radar	Radar Signal Processing			
Participation in 2019 2nd International Workshop on Signal and Information Intelligent Learning and Processing. See entry 99.							

U.S. Department of Energy

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
94	2023	Conference	Nuclear Tech	Plasma Physics		CAEP	
Participation in 2023 International Conference on Matter and Radiation at Extremes (ICMRE). See entry 94.							

Duke University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
13	2024	Conference	AI/ML, Electromagnetic Tech	Antennas and Microwave Tech. Electromechanical Engineering and Control Communications Countermeasures Tech.		CETC Norinco	BIT
Participation in 14th International Conference on Antennas, Propagation and Electromagnetic Theory. See entry 13.							
15	2015-Ongoing?	Institutional Visits/Exchange	Unknown	Antennas and Microwave Tech.		CETC	
Alleged visits/exchanges with PRC defense research lab. See entry 15.							
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST
Participation in 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.							
92	2020	Conference	AI/ML	Parallel and Distributed Processing	NUDT		
Participation in 2020 Integrating AI and Computing Systems Forum. See entry 92.							

Embry-Riddle Aeronautical University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
63	2020	Conference	Acoustics, AI/ML, Sensing	Hydroacoustic Tech.			HEU
Participation in International Forum of Ocean Information 2020. See entry 63.							
65	2017	Research Collab	Sensors	Hydroacoustic Tech.			HEU
Collaboration with PRC defense research lab on underwater sensor research. See entry 65.							

Emory University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
71	2022	Conference	Computer Tech	Information System Security Technology	AMS		NWPU
Participation in the 2022 7th International Conference on Data Science in Cyberspace. See entry 71.							

Exodynamics Technology Inc.

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
109	2019	Conference	Munitions, Rockets, Propulsion	Space Chemical Power Technology		CAEP CASC China Ordnance Society Norinco	NUST
Participation in 13th International Autumn Symposium on Propellants, Explosives and Pyrotechnics. See entry 109.							

U.S. Federal Aviation Administration

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
74	2024	Conference	Aerospace, AI/ML	Integrated Avionics Tech.		AVIC COMAC	
Participation in 2024 13th Avionics International Forum. See entry 74.							

Florida Atlantic University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
71	2022	Conference	Computer Tech	Information System Security Technology	AMS		NWPU
Participation in 2022 7th International Conference on Data Science in Cyberspace. See entry 71.							

GE Avio Aero

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
17	2022	Conference	Aerospace, Energy, Propulsion	Aviation Engine High- Altitude Simulation Tech.		AECC CASIC	
Participation in 2022 Forum of the Global Power & Propulsion Society (GPPS). See Entry 17.							

George Mason University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
126	2018	Institutional Visits/Exchange	Communications	Underwater Information and Control			HIT

Alleged lecture given to PRC defense research lab. See entry 127.

Georgia Institute of Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
5	Ongoing?	Institutional Collab	Unknown	Aero-Engine Aerodynamics and Thermodynamics			Beihang

Alleged partnership with PRC military-affiliated university department. See entry 5.

19	2019	Conference	Aerospace	Aviation Plasma Dynamics	AFEU	AECC	BIT NUAA NWPU
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Participation in 2019 1st International Symposium on Thermal-Fluid Dynamics. See entry 19.

123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NRA NUDT	CASIC	Beihang BIT NWPU
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Participation in 2024 International Conference on Autonomous Unmanned Systems. See entry 123.

Goodrich

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
109	2019	Conference	Munitions, Propulsion, Rockets	Space Chemical Power Technology		CASC CAEP China Ordnance Society Norinco	NUST

Participation in 13th International Autumn Symposium on Propellants, Explosives and Pyrotechnics. See entry 109.

Harvard University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
37	2015-Ongoing?	Institutional Collab	Materials	Composite Material Tech. in Special Env.			HIT

Alleged joint research lab with defense-affiliated research institute. See entry 37.

63	2020	Conference	Acoustics, AI/ML, Sensing	Hydroacoustic Tech.			HEU
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Participation in International Forum of Ocean Information 2020. See entry 63.

87	2019-Ongoing?	Institutional Collab	Unknown	Nano- and Micro-Fabrication Tech.			
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Alleged work/study agreement with PRC defense research lab. See entry 87.

Honeywell

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
8	2018	Institutional Collab	GNC	Aircraft Control and Integration Tech.		AVIC	
Joint business agreement with PRC military company. See entry 8.							
74	2024	Conference	Aerospace, AI/ML	Integrated Avionics Tech.		AVIC COMAC	
Participation in 2024 13th Avionics International Forum. See entry 74.							

IBM

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
14	2019	Institutional Visits/ Exchange	Electromagnetic Tech	Antennas and Microwave Tech.		CETC	
A researcher affiliated with a PRC defense research lab has allegedly led at least one project at IBM. See entry 14.							
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	
IBM-affiliated individual allegedly given honorary professorship at PRC defense research lab. See entry 16.							
46	2015-2019	Conference	Electromagnetic Tech	Electromagnetic Environment Effects	AEU	CASC SASTIND	
Participation in China-US International Symposiums on Electrostatic Protection and Standardization. See entry 46.							

Intel

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
14	2019	Institutional Visits/ Exchange	Electromagnetic Tech	Antennas and Microwave Tech.		CETC	
A researcher affiliated with a PRC defense research lab has allegedly led at least one project at Intel. See entry 14.							
28	Ongoing?	Institutional Collab	Unknown	Communications Anti-Jamming Tech.			
Alleged cooperation with a PRC defense research lab. See entry 28.							

Iowa State University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
19	2019	Conference	Aerospace	Aviation Plasma Dynamics	AFEU	AECC	BIT NUAU NWPU
Participation in 2019 1st International Symposium on Thermal-Fluid Dynamics. See entry 19.							

Kirkhill-TA

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
3	Ongoing?	Institutional Collab	Unknown	Advanced Composite Materials Advanced High-Temperature Structural Materials		AECC	

Alleged relationship with blacklisted PRC defense company. See entry 3.

Lehigh University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
61	2021	Conference	Acoustics	Hydroacoustic Countermeasure Technology Underwater Measurement and Control Technology	DNA NRA		HEU

Participation in 2021 IEEE/OES China Ocean Acoustics Conference. See entry 61.

Lucent

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
28	Ongoing?	Institutional Collab	Unknown	Communications Anti-Jamming Tech.			

Alleged cooperation with PRC defense research lab. See Entry 28.

Massachusetts Institute of Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	

Alleged cooperative relationship with PRC defense research lab. See entry 16.

39	2023	Conference	AI/ML, Manufacturing, Maritime Tech, Materials	Computational Fluid Dynamics		CARDC	Beihang HIT
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Participation in 2023 Beihang International Forum for Young Scientists. See entry 39.

67	2013-Ongoing?	Institutional Collab	Acoustics	Hydroacoustic Tech.			HEU
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Alleged undergraduate exchange program with PRC military-affiliated academic department. See entry 67.

87	2019-Ongoing?	Institutional Collab	Unknown	Nano- and Micro-Fabrication Tech.			
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Alleged work/study agreement with PRC defense research lab. See entry 87.

115	2013-2017	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
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Alleged work/study agreement with PRC military research lab. See entry 115.

128	2021	Conference	Acoustics	Underwater Measurement and Control Technology		CSSC	
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Participation in the China International Conference on Ocean Acoustics and Science and Technology Competition on Hydroacoustic and Ocean Technology. See entry 128.

Metatech

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
44	2019	Conference	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Compatibility	AEU NUDT	AVIC CAEP	

Participation in 2019 Asian Electromagnetics Conference. See entry 44.

45	2019	Institutional Collab	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Environment Effects and Electro-Optical Engineering	AEU		
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Participation in First Plenary Session of the International Academic Committee of the National International Joint Research Center for Transient Electromagnetic Environment and Applications. See entry 45.

Mind Research Institute

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NRA NUDT	CASIC	Beihang BIT NWPU

Participation in 2024 International Conference on Autonomous Unmanned Systems. See entry 123.

MSC Software

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
130	2019	Conference	Ground Vehicles	Vehicle Transmission		Norinco	Beihang BIT

Participation in 2019 International Conference on Rotating Machinery Transmission and Control. See entry 130.

National Academy of Engineering

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
11	2024	Conference	Measurement Tech, Simulation & Modeling	Antennas and Microwave Tech.		CETC Huawei	

Participation in 2024 International Symposium on Measurement and Modeling of 6G Wireless Channels. See entry 11.

National Academy of Inventors

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
11	2024	Conference	Measurement Tech, Simulation & Modeling	Antennas and Microwave Tech.		CETC Huawei	

Participation in International Symposium on Measurement and Modeling of 6G Wireless Channels. See entry 11.

National Institute of Standards and Technology (NIST)

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT

Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and International Forum for 3rd Generation Semiconductors. See entry 117.

National Instruments

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
11	2024	Conference	Measurement Tech, Simulation & Modeling	Antennas and Microwave Tech.		CETC Huawei	

Participation in the International Symposium on Measurement and Modeling of 6G Wireless Channels. See entry 11.

National Semiconductor

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
28	Ongoing?	Institutional Collab	Unknown	Communications Anti-Jamming Tech.			

Alleged cooperation with a PRC defense research lab. See entry 28.

New York University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
11	2024	Conference	Measurement Tech, Simulation & Modeling	Antennas and Microwave Tech.		CETC Huawei	

Participation in International Symposium on Measurement and Modeling of 6G Wireless Channels. See entry 11.

99	2019	Conference	AI/ML, Radar	Radar Signal Processing			
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Participation in the 2019 2nd International Workshop on Signal and Information Intelligent Learning and Processing. See entry 99.

NOAA

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
63	2020	Conference	Acoustics, AI/ML, Sensing	Hydroacoustic Tech.			HEU

Participation in International Forum of Ocean Information 2020. See entry 63.

North Carolina State University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/ RI	7S
50	2020	Conference	Communications	Electronic Information Control		CETC	
Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.							
54	2023	Conference	Semiconductors	Gallium Arsenide Microwave and Millimeter Wave Monolithic and Modular Circuitry		CETC ZTE	

Participation in the 2023 8th International Forum on Third Generation Semiconductors (IFWS) & the 19th China International Semiconductor Lighting Forum. See entry 54.

117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT
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Participation in 2024 21st Sino-International Forum on Semiconductor Lighting and International Forum for 3rd Generation Semiconductors. See Entry 117.

Northeastern University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
61	2021	Conference	Acoustics	Hydroacoustic Countermeasure Technology Underwater Measurement and Control Technology	DNA NRA		HEU
Participation in the 2021 IEEE/OES China Ocean Acoustics Conference. See entry 61.							
80	2018	Conference	Materials	Materials Tech. in Impact Environments		Norinco	BIT NUAA NWPU

Participation in the 2018 International Symposium on Advanced Materials Research. See entry 80.

Northwestern University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
37	2015-Ongoing?	Institutional Collab	Materials	Composite Material Tech. in Special Env.			HIT
Alleged exchange and cooperation with a PRC military-affiliated research institute. See entry 37.							
73	2024	Conference	Electromagnetic Tech, Sensing	Infrared Sensing		CETC Norinco	
Participation in the 2024 3rd International Conference on Earth and Space: From Infrared to Terahertz. See entry 73.							

Oakland University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT
Participation in 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.							
50	2020	Conference	Communications	Electronic Information Control		CETC	
Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.							

Ohio State University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
15	2015	Institutional Visits/Exchange	Unknown	Antennas and Microwave Tech.		CETC	
Alleged hosting of academic from PRC defense research lab. See Entry 15.							
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	
Alleged cooperative relationship with PRC defense research lab. See Entry 16.							

Ohio University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT
Participation in 2024 22nd International Corrosion Congress. See entry 77.							

Oklahoma State University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
69	2021	Conference	Aerodynamics, Aerospace, Propulsion	Hypersonic Ramjet Technology	AFEU NUDT	CASC	Beihang HEU HIT NUAA NWPU
Participation in 2021 2nd International Symposium on Thermal-Fluid Dynamics. See entry 69.							

Pall Corporation

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
55	2022	Conference	Helicopter Tech	Helicopter Rotor Dynamics		AVIC	NUAA NWPU

Participation in the 2022 38th China Helicopter Academic Exchange Conference and the 6th International Forum on the Civil Helicopter Industry. See entry 55.

PCB Piezotronics

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
55	2022	Conference	Helicopter Tech	Helicopter Rotor Dynamics		AVIC	NUAA NWPU

Participation in the 2022 38th China Helicopter Academic Exchange Conference and the 6th International Forum on the Civil Helicopter Industry. See entry 55.

Pennsylvania State University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
15	2015- Ongoing?	Institutional Visits/ Exchange	Unknown	Antennas and Microwave Tech.		CETC	

Alleged exchanges with PRC defense research lab. See entry 15.

34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST
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Participation in 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

61	201	Conference	Acoustics	Hydroacoustic Countermeasure Technology	DNA NRA		HEU
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Participation in 2021 IEEE/OES China Ocean Acoustics Conference. See entry 61.

PowerAmerica

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
54	2023	Conference	Semiconductors	Gallium Arsenide Microwave and Millimeter Wave Monolithic and Modular Circuitry		CETC ZTE	

Participation in the 2023 8th International Forum on Third Generation Semiconductors (IFWS) & the 19th China International Semiconductor Lighting Forum. See entry 54.

117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLA General Hospital PLACDC	CAS-CHIOFMP CAS-SINN CAS-IS CASC CETC Huawei ZTE	HIT
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Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.

Pratt & Whitney

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
17	2022	Conference	Aerospace, Energy, Propulsion	Aviation Engine High-Altitude Simulation Tech.		AECC CASIC	

Participation in the 2022 Forum of the Global Power & Propulsion Society. See entry 17.

130	2019	Conference	Ground Vehicles	Vehicle Transmission		Norinco	Beihang BIT
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Participation in the 2019 International Conference on Rotating Machinery Transmission and Control. See entry 130.

Princeton University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
5	Ongoing?	Institutional Collab	Unknown	Aero-Engine Aerodynamics and Thermodynamics			Beihang

Alleged cooperation with PRC military-affiliated academic department. See entry 5.

27	Ongoing?	Institutional Collab	Communications	Communications Anti-Jamming Tech.			
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Alleged grad student joint training agreement with PRC defense research lab. See entry 27.

80	2018	Conference	Materials	Materials Tech. in Impact Environments		Norinco	BIT NUAA NWPU
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Participation in the 2018 International Symposium on Advanced Materials Research. See entry 80.

Purdue University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
5	Ongoing?	Institutional Collab	Unknown	Aero-Engine Aerodynamics and Thermodynamics			Beihang

Alleged cooperation with PRC military-affiliated academic department. See entry 5.

6	Ongoing?	Institutional Collab	Propulsion, Rockets	Aero-Engine Aerodynamics and Thermodynamics			Beihang
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Alleged joint research team with PRC military-affiliated academic department. See entry 6.

80	2018	Conference	Materials	Materials Tech. in Impact Environments		Norinco	BIT NUAA NWPU
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Participation in 2018 International Symposium on Advanced Materials Research. See entry 80.

103	2024	Conference	Reliability Engineering	Reliability & Environmental Engineering Tech.	NUDT	CASC China Ordnance Society	Beihang BIT NUST
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Participation in the 2024 15th International Conference on Reliability, Maintainability and Safety. See entry 103.

108	2019	Conference	Propulsion, Rockets			CASC	NWPU
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Participation in 2019 International Workshop on Space Propulsion. See entry 108.

Rensselaer Polytechnic Institute

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLA General Hospital PLACDC	CAS- CHOFP CAS-SINN CAS-IS CASC CETC Huawei ZTE	HIT

Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.

Rutgers University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
69	2021	Conference	Aerodynamics, Aerospace, Propulsion	Hypersonic Ramjet Technology	AFEU NUDT PLASSF	CASC	Beihang HEU HIT NUAA NWPU

Participation in 2021 2nd International Symposium on Thermal-Fluid Dynamics. See entry 69.

103	2024	Conference	Reliability Engineering	Reliability & Environmental Engineering Tech.	NUDT	CASC China Ordnance Society	Beihang BIT NUST
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Participation in the 2024 15th International Conference on Reliability, Maintainability and Safety. See entry 103.

San Francisco State University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
99	2019	Conference	AI/ML, Radar	Radar Signal Processing			

Participation in the 2019 2nd International Workshop on Signal and Information Intelligent Learning and Processing. See entry 99.

Southwest Research Institute

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
17	2022	Conference	Aerospace, Energy, Propulsion	Aviation Engine High-Altitude Simulation Tech.		AECC CASIC	

Participation in the 2022 Forum of the Global Power & Propulsion Society. See entry 17.

Stanford University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
37	2015-Ongoing?	Institutional Collab	Materials	Composite Material Tech. in Special Env.			HIT

Alleged exchange and cooperation with a PRC military-affiliated research institute. See entry 37.

87	2019-Ongoing?	Institutional Collab	Unknown	Nano- and Micro-Fabrication Tech.			
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Alleged work/study agreement with PRC defense research lab. See entry 87.

108	2019	Conference	Propulsion, Rockets	Solid Rocket Engine Combustion, Thermal Structure, and Inner Flow Field		CASC	NWPU
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Participation in the 2019 International Workshop on Space Propulsion. See entry 108.

Stevens Institute of Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
111	2018-Ongoing?	Institutional Collab	Unknown	Space Flight Dynamics Tech.	BACC		NWPU

Alleged cooperation agreement with PRC military research lab. See entry 111.

114	2015-2017	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
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Alleged visits to and from PRC defense research lab. See entry 114.

115	2013-2017	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
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Alleged study and training of grad students from a PRC military research lab. See entry 115.

Syracuse University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
98	2021	Conference	Radar	Radar Signal Processing	NUDT	CETC	

Participation in the 2021 CIE International Radar Conference. See entry 98.

100	2018	Institutional Collab	AI/ML, Radar	Radar Signal Processing			
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Establishment of the joint research center with PRC defense research lab. See entry 100.

Temple University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
99	2019	Conference	AI/ML, Radar	Radar Signal Processing			

Participation in the 2019 2nd International Workshop on Signal and Information Intelligent Learning and Processing. See entry 99.

Texas A&M University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
17	2022	Conference	Aerospace, Energy, Propulsion	Aviation Engine High-Altitude Simulation Tech.		AECC CASIC	

Participation in the 2022 Forum of the Global Power & Propulsion Society. See entry 17.

50	2020	Conference	Communications	Electronic Information Control		CETC	
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Participation in 2020 12th International Conference on Communication Software and Networking. See entry 50.

Texas Instruments

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
28	Ongoing?	Institutional Collab	Unknown	Communications Anti-Jamming Tech.			

Alleged cooperation with a PRC defense research lab. See entry 28.

Texas Tech University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
115	2013-2017	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU

Alleged work/study agreement with PRC research lab. See entry 115.

130	2019	Conference	Ground Vehicles	Vehicle Transmission			Beihang BIT Norinco
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Participation in the 2019 International Conference on Rotating Machinery Transmission and Control.

Thermo Fisher Scientific

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
119	2017	Conference	Spectrometry	Surface Physics and Chemistry		CAEP	

Participation in the 2017 Inorganic and Isotope Mass Spectrometry Conference of the Chinese Society of Mass Spectrometry. See entry 119.

U.S. Air Force Office of Scientific Research

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
14	2019	Individual Affiliation	Electromagnetic Tech	Antennas and Microwave Tech.		CETC	

A researcher affiliated with a PRC defense lab has allegedly led at least one project at the Air Force Office of Scientific Research. See entry 14.

U.S. Air Force Research Laboratory (AFRL)

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
14	2019	Individual Affiliation	Electromagnetic Tech	Antennas and Microwave Tech.		CETC	

A researcher affiliated with a PRC defense lab has allegedly led at least one project at AFRL. See entry 14.

U.S. Army Research Laboratory (ARL)

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
14	2019	Individual Affiliation	Electromagnetic Tech	Antennas and Microwave Tech.		CETC	

A researcher affiliated with a PRC defense lab has allegedly led at least one project at ARL. See entry 14.

U.S. Department of Energy

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
21	2018-Ongoing?	Individual Affiliation	Unknown	Aviation Plasma Dynamics	AFEU		

Alleged affiliation with PLA Air Force defense lab researcher. See entry 21.

U.S. National Science Foundation

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
21	2018-Ongoing?	Individual Affiliation	Unknown	Aviation Plasma Dynamics	AFEU		

Alleged affiliation with PLA Air Force defense lab researcher. See entry 21.

U.S. Trade and Development Agency

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
46	2015-2019	Conference	Electromagnetic Tech	Electromagnetic Environment Effects	AUE	CASC SASTIND	

Participation in China-US International Symposiums on Electrostatic Protection and Standardization. See entry 46.

University of Alabama Tuscaloosa

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT
Participation in 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.							
50	2020	Conference	Communications	Electronic Information Control		CETC	
Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.							

University of Arizona

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST
Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.							

University of California Berkeley

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	
Alleged cooperative relationship with PRC defense lab. See entry 16. Ascribed to “University of California,” assumed to be Berkeley.							
52	2015-Ongoing?	Institutional Visits/Exchange	Unknown	Equipment Integrated Support Technology	NUDT		
Alleged study by personnel affiliated with a PRC military research lab. See entry 52.							
91	2021	Conference	Radar	Parallel and Distributed Processing	NUDT		
Participation in the 2021 Radar Target Detection Challenge. See entry 91.							
123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NRA NUDT	CASIC	Beihang BIT NWPU
Participation in the 2021 Radar Target Detection Challenge. See entry 123. Ascribed to “University of California,” assumed to be Berkeley.							

University of California Irvine

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
9	2017- Ongoing?	Institutional Collab	Aerodynamics	Airfoil and Blading Aerodynamics			NWPU
Alleged establishment of a joint research base with a PRC defense lab. See Entry 9.							
33	2020	Conference	Nanotechnology	Communications Countermeasures Tech.		CETC	BIT NUST
Participation in the 2020 4th Micro-Nano Optics Technology and Application Exchange Conference. See entry 33.							

University of California Los Angeles

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
33	2020	Conference	Nanotechnology	Communications Countermeasures Tech.		CETC	BIT NUST
Participation in the 2020 4th Micro-Nano Optics Technology and Application Exchange Conference. See entry 33.							

University of California Merced

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
99	2019	Conference	AI/ML, Radar	Radar Signal Processing			
Participation in the 2019 2nd International Workshop on Signal and Information Intelligent Learning and Processing. See entry 99.							
131	2015	Institutional Collab	Unknown	Vessel Integrated Power Technology		CSSC	
Visit and initial discussions toward cooperation with PRC defense lab. See entry 131.							

University of California San Diego

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
81	2018	Institutional Visits/ Exchange	Unknown	Materials Tech. in Impact Environments		Norinco	BIT
Alleged exchanges with PRC defense lab. See entry 81.							
110	2018- 2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST
Participation in the International Conference on Defense Technology. See entry 110.							

University of California Santa Barbara

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
19	2019	Conference	Aerospace	Aviation Plasma Dynamics	AFEU	AECC	BIT NUAA NWPU

Participation in the 2019 1st International Symposium on Thermal-Fluid Dynamics. See entry 1.

117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLA General Hospital PLACDC	CAS- CHOFMP CAS-SINN CAS-IS CASC CETC Huawei ZTE	HIT
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Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.

University of Chicago

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
115	2013-2017	Institutional Visits/ Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU

Alleged work/study agreement with PRC military lab. See entry 115.

University of Connecticut

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
5	Ongoing	Institutional Collab	Unknown	Aero-Engine Aerodynamics and Thermodynamics	Beihang		

Alleged cooperation with PRC military-affiliated academic department. See entry 5.

University of Hawaii

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
61	2021	Conference	Acoustics	Hydroacoustic Countermeasure Technology	DNA NRA		HEU

Participation in 2021 IEEE/OES China Ocean Acoustics Conference. See entry 61.

University of Houston

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT

Alleged cooperative relationship with PRC defense lab. See entry 16.

Participation in 2024 and 2025 International Conference on Communication Software and Networks. See Entry 31.							
50	2020	Conference	Communications	Electronic Information Control		CETC	
Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.							
65	2017	Research Collab	Sensors	Hydroacoustic Tech.			HIT
Joint research with PRC defense lab. See entry 65.							

University of Illinois

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang IT HIT NUST

Participation in 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

University of Illinois Chicago

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
13	2024	Conference	AI/ML, Electromagnetic Tech	Antennas and Microwave Tech. Electromechanical Engineering and Control Communications Counter. Tech.		CETC Norinco	BIT

Participation in 14th International Conference on Antennas, Propagation and Electromagnetic Theory. See entry 13.

University of Maryland

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
35	2023	Institutional Visits/Exchange	Aerospace Materials	Composite Material Tech. in Special Env.			HIT

Alleged visit and lecture at PRC military-affiliated research institution. See entry 35.

99	2019	Conference	AI/ML, Radar	Radar Signal Processing			
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Participation in the 2019 2nd International Workshop on Signal and Information Intelligent Learning and Processing. See entry 99.

109	2019	Conference	Munitions, Propulsion, Rockets	Space Chemical Power Technology		CAEP CASC China Ordnance Society Norinco	NUST
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Participation in 13th International Autumn Symposium on Propellants, Explosives and Pyrotechnics. See entry 109.

University of Massachusetts Amherst

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
68	2024	Conference	Maritime Tech	Hydrodynamics	CCSC		
128	2021	Conference	Acoustics	Underwater Measurement and Control Technology		CSSC	

Participation in the China International Conference on Ocean Acoustics and the S&T Competition on Hydroacoustic and Ocean Technology. See entry 128. Ascribed to "University of Massachusetts," presumed to be Amherst.

University of Massachusetts Dartmouth

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
61	2021	Conference	Acoustics	Hydroacoustic Countermeasure Technology	DNA NRA		HEU

Participation in the 2021 IEEE/OES China Ocean Acoustics Conference. See entry 61.

University of Michigan

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
20	2018	Conference	Aerospace, Propulsion	Aviation Plasma Dynamics	AFEU NUDT		NWPU

Participation in the 2018 9th International Workshop on Detonation for Propulsion. See entry 20.

University of Mississippi

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
61	2021	Conference	Acoustics	Hydroacoustic Countermeasure Technology	DNA NRA		HEU

Participation in the 2021 IEEE/OES China Ocean Acoustics Conference. See entry 61.

University of Nebraska Lincoln

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
76	2016- 2018	Conference	Aerospace, Manufacturing	High Energy Beam Processing Tech.		AVIC	

Participation in the 2016 and 2018 International Conference on Power Beam Processing Technologies. See entry 76.

University of Nevada

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
123	2024	Conference	AI/ML, Communications, Unmanned Systems	UAV Special Tech.	AFEU NUDT NRA	CASIC	Beihang BIT NUST NWPU

Participation in 2024 International Conference on Autonomous Unmanned Systems. See entry 123.

University of New Mexico

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST

Participation in 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

45	2019	Institutional Collab	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Environment Effects and Electro-Optical Engineering	AEU		
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Participation in the First Plenary Session of the International Academic Committee of the National International Joint Research Center for Transient Electromagnetic Environment and Applications. See entry 45.

University of North Carolina

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
127	2018	Institutional Visits/ Exchange	Unknown	Underwater Information and Control			HIT

Visit and lecture given to PRC defense research lab. See entry 127.

University of Oklahoma

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
99	2019	Conference	AI/ML, Radar	Radar Signal Processing			

Participation in 2019 2nd International Workshop on Signal and Information Intelligent Learning and Processing. See entry 99.

University of Pennsylvania

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.			

Alleged cooperative relationship with PRC defense lab. See entry 16.

University of Rochester

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
73	2024	Conference	Electromagnetic Tech, Sensing	Infrared Sensing		CETC Norinco	

Participation in the 2024 3rd International Conference on Earth and Space: From Infrared to Terahertz. See entry 73.

University of South Florida

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
97	2015-Unknown	Research Collab	Materials	Precision Hot Processing of Metals			HIT

Research collaboration with PRC defense research lab. See entry 97.

University of Southern California

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
11	2024	Conference	Measurement Tech, Simulation & Modeling	Antennas and Microwave Tech.		CETC	

Participation in the International Symposium on Measurement and Modeling of 6G Wireless Channels. See entry 11.

University of Tennessee Knoxville

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
22	2021	Research Collab	Spectrometry	Ballistic Missile Penetration Tech.	RFRA		

Research collaboration with likely PRC military research lab. See Entry 22.

University of Texas

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	

Alleged cooperative relationship with PRC defense research lab. See entry 16.

110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AEU NRA NEU NUDT	CASIC	Beihang BIT NWPU
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Participation in International Conference on Defense Technology. See entry 110.

University of Texas Arlington

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
123	2024	Conference	AI/ML, Communications, Unmanned Systems	UAV Special Tech.	AFEU NUDT NRA	CASIC	Beihang BIT NUST NWPU

Participation in 2024 International Conference on Autonomous Unmanned Systems. See entry 123.

University of Texas Dallas

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT

Participation in 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.

50	2020	Conference	Communications	Electronic Information Control		CETC	
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Participation in 2020 12th International Conference on Communication Software and Networking. See entry 50.

71	2022	Conference	Computer Tech	Information System Security Technology	AMS		NWPU
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Participation in 2022 7th International Conference on Data Science in Cyberspace. See entry 71.

University of Utah

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST

Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

80	2018	Conference	Materials	Materials Tech. in Impact Environments		Norinco	BIT NUAA NWPU
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Participation in the 2018 International Symposium on Advanced Materials Research. See entry 80.

University of Virginia

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
54	2023	Conference	Semiconductors	Gallium Arsenide Microwave and Millimeter Wave Monolithic and Modular Circuitry		CETC ZTE	
Participation in the 2023 8th International Forum on Third Generation Semiconductors (IFWS) & the 19th China International Semiconductor Lighting Forum. See entry 54.							
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT
Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.							
130	2019	Conference	Ground Vehicles	Vehicle Transmission		Norinco	Beihang BIT
Participation in 2019 International Conference on Rotating Machinery Transmission and Control. See entry 130.							

University of Washington

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
61	2021	Conference	Acoustics	Hydroacoustic Countermeasure Technology	DNA NRA		HEU
Participation in the 2021 IEEE/OES China Ocean Acoustics Conference. See Entry 61.							
94	2023	Conference	Nuclear Tech	Plasma Physics		CAEP	
Participation in the 2023 International Conference on Matter and Radiation at Extremes. See Entry 94.							

University of West Virginia

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang HIT NUST
Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.							

University of Western New England

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
103	2024	Conference	Reliability Engineering	Reliability & Environmental Engineering Tech.	NUDT	CASC China Ordnance Society	Beihang BIT NUST

Participation in the 2024 15th International Conference on Reliability, Maintainability and Safety. See entry 103.

University of Wisconsin

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
15	2015-Ongoing?	Institutional Visits/Exchange	Unknown	Antennas and Microwave Tech.		CETC	

Alleged exchange with PRC defense research lab. See entry 15.

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
38	Ongoing?	Institutional Collab	Materials	Composite Material Tech. in Special Env.			HIT

Alleged cooperation with PRC military-affiliated research lab. See entry 38.

42	2020	Conference	Communication, Electromagnetic Tech, Materials	Electromagnetic Compatibility		CSSC	NWPU
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Participation in the 2020 IEEE International Microwave Symposium Series - Advanced Materials and Processes for RF and Terahertz Applications. See entry 42.

43	2020	Conference	Electromagnetic Tech	Electromagnetic Compatibility		CAEP CETC CSSC	
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Participation in the 2020 6th IEEE Global Electromagnetic Compatibility Conference. See Entry 43.

53	Ongoing?	Institutional Collab	Unknown	Explosive Combustion		Norinco	
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Alleged study and exchange with PRC military-affiliated research institute. See entry 53.

75	2019	Conference	Propulsion, Rockets	Liquid Rocket Engine Technology		CASC	
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Participation in the 2019 International Workshop on Space Propulsion Technology. See entry 75.

URSI USA

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST

Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

U.S. Electrostatic Discharge Association

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
46	2015-2019	Conference	Electromagnetic Tech	Electromagnetic Environment Effects	AUE	CASC SASTIND	

Participation in China-US International Symposiums on Electrostatic Protection and Standardization. See entry 46.

Utah State University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
114	2015-2017	Institutional Visits/ Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU

Alleged visits to and from PRC defense research lab. See Entry 114.

115	2013-2017	Institutional Visits/ Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
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Alleged study and training of grad students from a PRC defense research lab. See entry 115.

Virginia Tech

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
54	2023	Conference	Semiconductors	Gallium Arsenide Microwave and Millimeter Wave Monolithic and Modular Circuitry		CETC ZTE	

Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 54.

117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT
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Participation in 2024 21st Sino-International Forum on Semiconductor Lighting and International Forum for 3rd Generation Semiconductors. See entry 117.

Wind River Systems

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
74	2024	Conference	Aerospace, AI/ML	Integrated Avionics Tech.		AVIC COMAC	

Participation in the 2024 13th Avionics International Forum. See entry 74.

Wolfspeed

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT

Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.

Australia

Australian National University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NRA NUDT	CASIC	Beihang BIT NWPU

Participation in the 2024 International Conference on Autonomous Unmanned Systems. See entry 123.

Corrosion Society of Australia

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in the 2024 22nd International Corrosion Congress. See entry 77.

International Society of Impact Engineering

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST

Participation in the International Conference on Defense Technology. See entry 110.

La Trobe University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT

Participation in the 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.

Multidisciplinary Center for Infrastructure Engineering

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
79	2024	Conference	Munitions	Materials Tech. in Impact Environments		Norinco	BIT

Participation in the 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.

RMIT University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in 2024 22nd International Corrosion Congress. See entry 77.

117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT
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Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.

Swinburne University of Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
10	2007-2016	Institutional Collab	Aerodynamics	Airfoil and Blading Dynamics			NWPU

Alleged creation of a joint research based with PRC defense lab. See entry 10.

79	2024	Conference	Munitions	Materials Tech. in Impact Environments		Norinco	BIT
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Participation in the 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.

University of Melbourne

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
71	2022	Conference	Computer Tech.	Information System Security Technology	AMS		NWPU

Participation in the 2022 7th International Conference on Data Science in Cyberspace. See entry 71.

University of New South Wales

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in the 2024 22nd International Corrosion Congress. See entry 77.

103	2024	Conference	Reliability Engineering	Reliability & Environmental Engineering Tech.	NUDT	CASC	BIT NUST
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						China Ordnance Society	
Participation in the 2024 15th International Conference on Reliability, Maintainability and Safety. See entry 103.							
110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST
Participation in International Conference on Defense Technology. See entry 110.							

University of Sydney

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
10	2007-2016	Institutional Collab	Aerodynamics	Airfoil and Blading Dynamics			NWPU
Alleged creation of a joint research based with PRC defense lab. See entry 10.							
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	
Alleged unspecified cooperative relationship with PRC defense research lab. See entry 16.							
27	Ongoing?	Institutional Collab	Communications	Communications Anti-Jamming Tech.			
Alleged grad student joint training agreement with PRC defense research lab. See entry 27.							
37	2015-Ongoing?	Institutional Collab	Materials	Composite Material Tech. in Special Env.			HIT
Alleged exchange and cooperation with a PRC military-affiliated research institute. See entry 37.							
50	2020	Conference	Communications	Electronic Information Control		CETC	
Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.							
80	2018	Conference	Materials	Materials Tech. in Impact Environments		Norinco	BIT NUAA NWPU
Participation in 2018 International Symposium on Advanced Materials Research. See Entry 80.							
117	2017	Conference	Semiconductors	Specialized Integrated Circuits		CETC	
Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.							

University of Technology Sydney

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	
Alleged cooperative relationship with PRC defense lab. See entry 16.							
110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets,	Space Chemical Power Technology Ballistics	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST

			Unmanned Systems	Materials Tech. in Impact Environments			
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Participation in the International Conference on Defense Technology. See entry 110.

University of Western Australia

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
72	2015-Ongoing?	Institutional Visits/Exchange	Unknown	Information Systems Engineering	NUDT	CETC	

PRC military researcher affiliated with this lab. See entry 72.

University of Wollongong

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
99	2019	Conference	AI/ML, Radar	Radar Signal Processing			

Participation in the 2019 2nd International Workshop on Signal and Information Intelligent Learning and Processing. See entry 99.

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
42	2020	Conference	Communications, Electromagnetic Tech, Materials	Electromagnetic Compatibility		CSSC	NWPU

Participation in the 2020 IEEE International Microwave Symposium Series - Advanced Materials and Processes for RF and Terahertz Applications. See entry 42.

43	2020	Conference	Electromagnetic Tech	Electromagnetic Compatibility		CAEP CETC CSSC	
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Participation in the 2020 6th IEEE Global Electromagnetic Compatibility Conference. See entry 43.

Austria

Austrian Academy of Sciences

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
11	2024	Conference	Measurement Tech, Simulation & Modeling	Antennas and Microwave Tech.		CETC Huawei	

Participation in International Symposium on Measurement and Modeling of 6G Wireless Channels. See entry 11.

Belgium

KU Leuven

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
115	2013-2017	Institutional Visits/ Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU

Alleged study and training of grad students from a PRC defense research lab. See entry 115.

Université Libre de Bruxelles

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
66	2016	Conference	Acoustics	Hydroacoustic Tech. Sonar Technology			HEU

Participation in the 2016 IEEE Oceanic Engineering Society China Marine Acoustics Symposium. See entry 66.

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
38	Ongoing?	Institutional Collab	Materials	Composite Material Tech. in Special Env.			HIT

Alleged unspecified cooperation with PRC defense research lab. See entry 38.

Vrije University Brussels

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
67	2013-Ongoing?	Institutional Collab	Acoustics	Hydroacoustic Tech.			HEU
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Alleged undergraduate exchange program with PRC military-affiliated academic department. See entry 67.

Participation in the 2024 22nd International Corrosion Congress. See entry 77.

Brazil

Brazilian Space Agency

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
129	Unknown	Research Collab	Aerospace	Vacuum Technology and Physics		CASC	

Joint research and development of satellites with PRC military company. See entry 129.

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
43	2020	Conference	Electromagnetic Tech	Electromagnetic Compatibility		CAEP CETC CSSC	

Participation in the 2020 6th IEEE Global Electromagnetic Compatibility Conference. See entry 43.

Canada

Canadian Academy of Engineering

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
11	2024	Conference	Measurement Tech, Simulation & Modeling	Antennas and Microwave Tech.		CETC Huawei	
Participation in the 2024 International Symposium on Measurement and Modeling of 6G Wireless Channels. See entry 11.							
50	2020	Conference	Communications	Electronic Information Control		CETC	
Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.							

Concordia University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	208	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST
Participation in 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.							
48	2019	Conference	Aerospace, AI/ML, Unmanned Systems	Electromechanical Engineering and Control	NUDT	CASIC China C2 Society Norinco	BIT NWPU
Participation in the 2019 2nd IEEE International Conference on Unmanned Systems. See entry 48.							

Dalhousie University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
63	2020	Conference	Acoustics, AI/ML, Sensing	Hydroacoustic Tech.			HEU
Participation in the International Forum of Ocean Information 2020. See entry 63.							

Institut National de la Recherche Scientifique

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
33	2020	Conference	Nanotechnology	Communications Countermeasures Tech.		CETC	BIT NUST
Participation in the 2020 4th Micro-Nano Optics Technology and Application Exchange Conference. See entry 33.							

National Research Council of Canada

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
25	2024	Conference	Communications	Communications Anti-Jamming Tech.			

Polytechnique Montreal

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST

Participation in the 2024 3rd International Conference on Electronic Information Technology. See entry 34.

Royal Canadian Academy of Sciences

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
41	2019	Conference	Ground Vehicles, Propulsion	Diesel Engine Booster Technology		CSSC Norinco	BIT

Participation in 2019 Joint Annual Academic Conference of the China Internal Combustion Engine Society. See entry 41.

Royal Military College of Canada

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	BIT HIT NUST

Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

University of Alberta

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
18	2023	Conference	Materials	Aviation Plasma Dynamics	AFEU	AVIC CASC CSSC Norinco	HIT
Participation in the 2023 International Conference on Surface Science Technology and Application. See entry 18.							
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT
Participation in 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.							
50	2020	Conference	Communications	Electronic Information Control		CETC	
Participation in 2020 12th International Conference on Communication Software and Networking. See entry 50.							
103	2024	Conference	Reliability Engineering	Reliability & Environmental Engineering Tech.	NUDT	CASC China Ordnance Society	Beihang BIT NUST
Participation in 2024 15th International Conference on Reliability, Maintainability and Safety. See entry 103.							
115	2013-2017	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
Alleged study and training of grad students from a PRC defense research lab. See entry 115.							

University of British Columbia

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
63	2020	Conference	Acoustics, AI/ML, Sensing	Hydroacoustic Tech.			HEU
Participation in the International Forum of Ocean Information 2020. See entry 63.							
69	2021	Conference	Aerodynamics, Aerospace, Propulsion	Hypersonic Ramjet Technology	AEU NUDT PLASSF	CASC	Beihang HEU HIT NUAA NWPU
Participation in the 2021 2nd International Symposium on Thermal-Fluid Dynamics. See entry 69.							

University of Calgary

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
18	2023	Conference	Materials	Aviation Plasma Dynamics	AFEU	AVIC CASC CSSC Norinco	HIT
Participation in the 2023 International Conference on Surface Science Technology and Application. See entry 18.							

University of Guelph

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NEU NUDT	CASIC	Beihang BIT NWPU

Participation in the 2024 International Conference on Autonomous Unmanned Systems. See entry 123.

University of Montreal

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
13	2024	Conference	AI/ML, Electromagnetic Tech	Antennas and Microwave Tech. Electromechanical Engineering and Control Communications Countermeasures Tech.		CETC Norinco	BIT

Participation in the 2024 14th International Conference on Antennas, Propagation and Electromagnetic Theory. See entry 13.

42	2020	Conference	Communications, Electromagnetic Tech, Materials	Electromagnetic Compatibility		CSSC	NWPU
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Participation in the 2020 IEEE International Microwave Symposium Series - Advanced Materials and Processes for RF and Terahertz Applications. See entry 42.

University of Ottawa

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
12	2024	Conference	Radar	Antennas and Microwave Tech.	AFEWC NUDT	AVIC CASC CASIC CETC	BIT NUAA

Participation in the 2024 29th Conference on Microwave Photonics Technology and Applications. See entry 12.

16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	
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Alleged unspecified cooperative relationship with PRC military-affiliated research lab. See entry 16.

49	2023	Conference	Communications, Electromagnetic Tech., Measurement Tech, Radar, Sensing	Electronic Information Control	AFEU AFEWC AMS	AVIC CASC CETC CSSC	NUAA
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Participation in the 2023 8th Conference on Microwave Photonic Technology and Applications. See Entry 49.

63	2020	Conference	Acoustics, AI/ML, Sensing	Hydroacoustic Tech.			HEU
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Participation in the International Forum of Ocean Information 2020. See entry 63.

University of Toronto

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	
Alleged unspecified cooperative relationship with PRC military-affiliated research lab. See entry 16.							
27	Ongoing?	Institutional Collab	Communications	Communications Anti-Jamming Tech.			
Alleged grad student joint training agreement with PRC defense research lab. See entry 27.							
54	2023	Conference	Semiconductors	Gallium Arsenide Microwave and Millimeter Wave Monolithic and Modular Circuitry		CETC ZTE	
Participation in the 2023 8th International Forum on Third Generation Semiconductors (IFWS) & the 19th China International Semiconductor Lighting Forum. See entry 54.							
114	2015-2018	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
Alleged visits to and from PRC defense research lab. See entry 114.							
115	2013-2017	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
Alleged study and training of grad students from a PRC defense research lab. See entry 115.							
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT
Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.							

University of Victoria

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
61	2021	Conference		Hydroacoustic Countermeasure Technology	DNA NRA		HEU
				Underwater Measurement and Control Technology			
Participation in the 2021 IEEE/OES China Ocean Acoustics Conference. See entry 61.							

University of Waterloo

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
26	2024	Conference	Communications	Communications Anti-Jamming Tech.		Huawei ZTE	
Participation in 2024 24th International Conference on Communication Technology. See entry 26.							

27	Ongoing?	Institutional Collab	Communications	Communications Anti-Jamming Tech.			
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Alleged grad student joint training agreement with PRC defense research lab. See entry 27.

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
53	Ongoing?	Institutional Collab	Unknown	Explosive Combustion		Norinco	

Alleged study and exchange with PRC military-affiliated research institute. See entry 53.

Western University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
19	2019	Conference	Aerospace	Aviation Plasma Dynamics	AFEU	AECC	BIT NUAA NWPU

Participation in the 2019 1st International Symposium on Thermal-Fluid Dynamics. See entry 19.

50	2020	Conference	Communications	Electronic Information Control		CETC	
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Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.

York University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
114	2015-2019	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU

Alleged visits to and from PRC defense research lab. See entry 114.

115	2013-2017	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
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Alleged study and training of grad students from a PRC defense research lab. See entry 115.

123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NRA NUDT	CASIC	Beihang BIT NWPU
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Participation in the 2021 Radar Target Detection Challenge. See entry 123.

Czechia

Prague University of Chemical Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in 2024 22nd International Corrosion Congress. See entry 77.

University of Pardubice

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
109	2019	Conference	Munitions, Propulsion, Rockets	Space Chemical Power Technology		CAEP CASC China Ordnance Society Norinco	NUST

Participation in the 13th International Autumn Symposium on Propellants, Explosives and Pyrotechnics. See entry 109.

110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST
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Participation in the International Conference on Defense Technology. See entry 110.

Denmark

Danish Academy of Sciences

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
120	2016	Conference	Materials	Surface Physics and Chemistry		CAEP	

Participation in the 2016 7th International Conference on Surface Engineering. See entry 120.

Technical University of Denmark

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in the 2024 22nd International Corrosion Congress. See entry 77.

Finland

Aalto University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
13	2024	Conference	AI/ML, Electromagnetic Tech	Antennas and Microwave Tech. Electromechanical Engineering and Control Communications Countermeasures Tech.		CETC Norinco	BIT

Participation in 14th International Conference on Antennas, Propagation and Electromagnetic Theory. See entry 13.

Nokia

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
28	Ongoing?	Institutional Collab	Unknown	Communications Anti-Jamming Tech.			

Alleged cooperation with a PRC defense research lab. See entry 28.

QT Group

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
74	2024	Conference	Aerospace, AI/ML	Integrated Avionics Tech.			

Participation in the 2024 13th Avionics International Forum. See entry 74.

University of Eastern Finland

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
25	2024	Conference	Communications	Communications Anti-Jamming Tech.			

Participation in the 2024 3rd International Conference on Electronic Information Technology. See entry 25.

University of Oulu

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
73	2024	Conference	Electromagnetic Tech, Sensing	Infrared Sensing		CETC Norinco	

Participation in the 2024 3rd International Conference on Earth and Space: From Infrared to Terahertz. See entry 73.

France

Airbus

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
1	2017-Ongoing?	Research Collab	Aerospace, Materials	Advanced Composite Materials		AECC	
Alleged agreement to cooperate on materials research with PRC military company. See entry 1.							
3	Ongoing?	Institutional Collab	Unknown	Advanced Composite Materials Advanced High-Temperature Structural Materials		AECC	
Alleged unspecified relationship with PRC military-affiliated research institute. See entry 3.							
17	2022	Conference	Aerospace, Energy, Propulsion	Aviation Engine High-Altitude Simulation Tech.		AECC CASIC	
Participation in the 2022 Forum of the Global Power & Propulsion Society. See entry 17.							
55	2022	Conference	Helicopter Tech	Helicopter Rotor Dynamics		AVIC	NUAA NWPU
Participation in the 2022 38th China Helicopter Academic Exchange Conference and the 6th International Forum on the Civil Helicopter Industry. See entry 55.							

Association for Medium and Small Enterprise Sustainable Development*

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
32	2023-2025	Conference	Unmanned Systems	Communications Countermeasures Tech.	AMS NUDT	AVIC CASC CASIC CETC	Beihang HEU NUAA
Participation in the 2025 International Conference on UAV Application and the 6th China International UAV and Anti-UAV. See entry 32.							
*Translation from Chinese author's writing. Official name unknown.							

CERFACS

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
108	2019	Conference	Propulsion, Rockets	Solid Rocket Engine Combustion, Thermal Structure, and Inner Flow Field		CASC	NWPU
Participation in 2019 International Workshop on Space Propulsion. See entry 108.							

Dassault

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
55	2022	Conference	Helicopter Tech	Helicopter Rotor Dynamics		AVIC	NUAA NWPU
74	2024	Conference	Aerospace, AI/ML	Integrated Avionics Tech.		AVIC COMAC	
Participation in the 2024 13th Avionics International Forum. See entry 74.							
130	2019	Conference	Ground Vehicles	Vehicle Transmission		Norinco	Beihang BIT
Participation in the 2019 International Conference on Rotating Machinery Transmission and Control. See entry 130.							

Ecole Centrale

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
5	Ongoing?	Institutional Collab	Unknown	Aero-Engine Aerodynamics and Thermodynamics			Beihang
Alleged cooperation with PRC military-affiliated academic department. See entry 5.							

Ecole Centrale de Nantes

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
68	2024	Conference	Maritime Tech	Hydrodynamics		CSSC	
Participation in the 2024 7th Symposium on Computational Marine Hydrodynamics. See entry 68.							

Ecole Polytechnique

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
94	2023	Conference	Nuclear Tech	Plasma Physics		CAEP	
Participation in the 2023 International Conference on Matter and Radiation at Extremes. See entry 94.							

France Telecom

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
28	Ongoing?	Institutional Collab	Unknown	Communications Anti-Jamming Tech.			
Alleged cooperation with a PRC defense research lab. See entry 28.							

French National Centre for Scientific Research

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
20	2018	Conference	Aerospace, Propulsion	Aviation Plasma Dynamics	AFEU NUDT		NWPU
Participation in the 2018 9th International Workshop on Detonation for Propulsion. See entry 20.							

Individual Researcher

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
36	2022-Ongoing?	Research Collab	Materials	Composite Material Tech. in Special Env.			HIT

A prominent French researcher who has established a lab with a military-affiliated university, in the same location as two defense research labs. See entry 36.

Institut National de Recherche en Informatique et en Automatique

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
7	2022-2024	Conference	GNC	Aircraft Control and Integration Tech.	NUDT	AVIC CAS-IA CASC CSSC Norinco	Beihang HEU NUAA NWPU

Participation in the International Conference on Guidance, Navigation, and Control. See entry 7.

Le Mans University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
63	2020	Conference	Acoustics, AI/ML, Sensing	Hydroacoustic Tech.			HEU

Participation in the International Forum of Ocean Information 2020. See entry 63.

Mines Nancy

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
121	Ongoing?	Individual Affiliation	Materials, Semiconductors	Surface Physics and Chemistry		CAEP	

Relationship with a researcher affiliated with the PRC nuclear research lab. See entry 121.

National Academy of Technological Sciences

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
58	2023	Conference	Manufacturing, Materials	High Energy Beam Processing Tech.		AVIC	

Participation in the 2023 International Conference on Lightweight Materials and Manufacture. See entry 58.

National Glass and Ceramics Lab

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
82	2017	Institutional Visits/Exchange	Materials	Materials Tech. in Impact Environments		Norinco	BIT

Visit to PRC defense research lab. See entry 82.

Nexter Munitions

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST

Participation in the International Conference on Defense Technology. See entry 110.

ONERA

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
108	2019	Conference	Propulsion, Rockets	Solid Rocket Engine Combustion, Thermal Structure, and Inner Flow Field		CASC	NWPU

Participation in the 2019 International Workshop on Space Propulsion. See entry 108.

Paris-Saclay University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
103	2024	Conference	Reliability Engineering	Reliability & Environmental Engineering Tech.	NUDT	CASC China Ordnance Society	Beihang BIT NUST

Participation in the 2024 15th International Conference on Reliability, Maintainability and Safety. See entry 103.

Safran

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
17	2022	Conference	Aerospace, Energy, Propulsion	Aviation Engine High-Altitude Simulation Tech.		AECC CASIC	

Participation in the 2022 Forum of the Global Power & Propulsion Society. See entry 17.

SECMA

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
3	Ongoing?	Institutional Collab	Unknown	Advanced Composite Materials Advanced High-Temperature Structural Materials		AECC	

Alleged unspecified relationship with PRC military-affiliated research institute. See entry 3.

Sorbonne Paris Nord University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT
Participation in 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.							
50	2020	Conference	Communications	Electronic Information Control		CETC	
Participation in 2020 12th International Conference on Communication Software and Networking. See entry 50.							

Sorbonne University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
51	2017	Research Collab	Acoustics, Materials	Equipment Integrated Support Technology	NUDT		
Research collaboration with PRC military research lab. See entry 51.							

University Du Maine

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
67	2013-Ongoing?	Institutional Collab	Acoustics	Hydroacoustic Tech.			HEU
Alleged undergraduate exchange program with PRC military-affiliated academic department. See entry 67.							

University of Haute-Alsace

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT
Participation in the 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.							
50	2020	Conference	Communications	Electronic Information Control		CETC	
Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.							

University of Metz

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
121	Ongoing?	Individual Affiliation	Materials, Semiconductors	Surface Physics and Chemistry		CAEP	
Alleged relationship with a researcher affiliated with the PRC nuclear research lab. See entry 121.							

University of Paris VI

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
10	2007-2016	Institutional Collab	Aerodynamics	Airfoil and Blading Aerodynamics			NWPU

Alleged creation of a joint research base with PRC defense lab. See entry 10.

University of Technology of Belfort-Montbéliard

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
105	2024	Conference	Materials	Remanufacturing Technology	AAAF		Beihang

Participation in the 2024 China Materials Conference E09: Material Surface Engineering Forum. See entry 105.

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
37	2015-Ongoing?	Institutional Collab	Materials	Composite Material Tech. in Special Env.			HIT

Alleged exchange and cooperation with a PRC military-affiliated research institute. See entry 37.

40	2018	Conference	Materials, Munitions	Detonator Safety and Reliability		CAEP Norinco	BIT NUAA NWPU
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Participation in the 2018 4th International Symposium on Nanostructured Energetic Materials and Applied Technology. See Entry 40.

75	2019	Conference	Propulsion, Rockets	Liquid Rocket Engine Technology		CASC	
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Participation in the 2019 International Workshop on Space Propulsion Technology. See entry 75.

79	2024	Conference	Munitions	Materials Tech. in Impact Environments		Norinco	BIT
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Participation in the 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.

98	2021	Conference	Radar	Radar Signal Processing	NUDT	CETC	
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Participation in the 2021 CIE International Radar Conference. See entry 98.

Germany

Aixtron AG

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT

Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.

Analytik Jena

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
119	2017	Conference	Spectrometry	Surface Physics and Chemistry		CAEP	

Participation in the 2017 Inorganic and Isotope Mass Spectrometry Conference of the Chinese Society of Mass Spectrometry. See entry 119.

BASF Coating GmbH

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in the 2024 22nd International Corrosion Congress. See entry 77.

Bundeswehr University Munich

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
108	2019	Conference	Propulsion, Rockets	Solid Rocket Engine Combustion, Thermal Structure, and Inner Flow Field		CASC	NWPU

Participation in the 2019 International Workshop on Space Propulsion. See entry 108.

Fachhochschule Ingolstadt

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT

Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.

Geesthacht

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in the 2024 22nd International Corrosion Congress. See entry 77.

German Research Center for Geosciences

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
112	2016	Research Collab	Aerospace	Space Flight Dynamics Tech.	BACC		NWPU

Research collaboration with PRC military research lab. See entry 112.

German Society for Corrosion Protection

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in the 2024 22nd International Corrosion Congress. See entry 77.

Helmholtz-Zentrum Hereon

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in the 2024 22nd International Corrosion Congress. See entry 77.

Helmut Schmidt University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
44	2019	Conference	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Compatibility	AEU NUDT	AVIC CAEP	

Participation in the 2019 Asian Electromagnetics Conference. See entry 44.

45	2019	Conference	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Compatibility	AEU		
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Participation in the First Plenary Session of the International Academic Committee of the National International Joint Research Center for Transient Electromagnetic Environment and Applications. See ntry 45.

Impetus Afea Co.

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST

Participation in the International Conference on Defense Technology. See entry 110.

Karlsruhe Institute of Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST

Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

Ludwig Maximilians-Munich University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
83	Unknown	Institutional Visits/ Exchange	Unknown	Materials Tech. in Impact Environments		Norinco	BIT

Visit to PRC defense research lab and discussion of establishing joint research lab. See entry 83.

Max Planck Society

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
9	2017- Ongoing?	Institutional Collab	Aerodynamics	Airfoil and Blading Aerodynamics			NWPU

Alleged establishment of a joint research base with a PRC defense lab. See entry 9.

Munich Institute of Space Propulsion

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
75	2019	Conference	Propulsion, Rockets	Liquid Rocket Engine Technology		CASC	

Participation in the 2019 International Workshop on Space Propulsion Technology. See entry 75.

Nemak

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
85	Ongoing?	Institutional Collab	Unknown	Microsystem Tech.		Norinco	

Alleged collaboration with PRC military company. See entry 85.

Otto-von-Guericke University Magdeburg

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
45	2019	Institutional Collab	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Environment Effects and Electro-Optical Engineering	AEU		

Participation in the First Plenary Session of the International Academic Committee of the National International Joint Research Center for Transient Electromagnetic Environment and Applications. See entry 45.

RENK

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
130	2019	Conference	Ground Vehicles	Vehicle Transmission		Norinco	Beihang BIT

Participation in 2019 International Conference on Rotating Machinery Transmission and Control. See entry 130.

Rohde & Schwarz

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
102	2007-Ongoing?	Institutional Collab	Unknown	Radar Signal Processing			

Alleged cooperation agreement with PRC defense research lab. See entry 102.

SELL

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
3	Ongoing?	Institutional Collab	Unknown	Advanced Composite Materials Advanced High-Temperature Structural Materials		AECC	

Alleged unspecified relationship with PRC military-affiliated research institute. See entry 3.

Siemens

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
28	Ongoing?	Institutional Collab	Unknown	Communications Anti-Jamming Tech.			
Alleged cooperation with a PRC defense research lab. See entry 28.							
104	2024	Conference	Simulation & Modeling	Reliability & Environmental Engineering Tech.	NUDT	AVIC CASC	Beihang
Participation in the 6th Chinese Conference on Simulation Technology Applications and Tianjin (Hebei) Low-Altitude Industry Development Summit. See entry 104.							
130	2019	Conference	Ground Vehicles	Vehicle Transmission		Norinco	Beihang BIT

Participation in the 2019 International Conference on Rotating Machinery Transmission and Control. See entry 130.

SST

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
59	2016-2018	Conference	Aerospace, Manufacturing	High Energy Beam Processing Tech.		AVIC	

Participation in the 2016 and 2018 International Conference on Power Beam Processing Technologies. See entry 59.

Technical University of Braunschweig

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
11	2024	Conference	Measurement Tech, Simulation & Modeling	Antennas and Microwave Tech.		CETC Huawei	

Participation in the 2024 International Symposium on Measurement and Modeling of 6G Wireless Channels. See entry 11.

113	2015	Institutional Collab					
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Joint aerospace workshop held with PRC military lab. See entry 113.

Technical University of Munich

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
108	2019	Conference	Propulsion, Rockets	Solid Rocket Engine Combustion, Thermal Structure, and Inner Flow Field		CASC	NWPU

Participation in the 2019 International Workshop on Space Propulsion. See Entry 108.

130	2019	Conference	Ground Vehicles	Vehicle Transmission		Norinco	Beihang BIT
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Participation in the 2019 International Conference on Rotating Machinery Transmission and Control. See entry 130.

TRW Automotive

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
85	Ongoing?	Institutional Collab	Unknown	Microsystem Tech		Norinco	

Alleged collaboration with PRC military company. See entry 85.

Tuebingen University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
88	2024	Research Collab	Nuclear Tech	Nuclear Data		CNNC	

Alleged research collaboration with PRC nuclear research lab. See entry 88.

Ulm University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
15	2015-Ongoing?	Institutional Visits/Exchange	Unknown	Antennas and Microwave Tech.		CETC	

Alleged exchange with PRC defense research lab. See entry 15.

University of Duisberg-Essen

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
68	2024	Conference	Maritime Tech	Hydrodynamics		CSSC	

Participation in 2024 7th Symposium on Computational Marine Hydrodynamics. See entry 68.

University of Freiburg

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NRA NUDT	CASIC	Beihang BIT NWPU

Participation in 2024 International Conference on Autonomous Unmanned Systems. See entry 123.

University of Hamburg

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
48	2019	Conference	Aerospace, AI/ML, Unmanned Systems	Electromechanical Engineering and Control	NUDT	CASIC China C2 Society Norinco	BIT NWPU

Participation in the 2019 2nd IEEE International Conference on Unmanned Systems. See entry 48.

123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NRA NUDT	CASIC	Beihang BIT NWPU
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Participation in the 2024 International Conference on Autonomous Unmanned Systems. See entry 123.

University of Munich

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
70	2018	Conference	Aerospace, Materials, Propulsion, Rockets	Hypersonic Ramjet Technology	NUDT PLASSF	AECC CASC	

Participation in 2018 9th Asian Joint Conference on Propulsion and Power. See entry 70.

111	2018-Ongoing?	Institutional Collab	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
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Alleged cooperation agreement with PRC military research lab. See entry 111.

University of Stuttgart

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
108	2019	Conference	Propulsion, Rockets	Solid Rocket Engine Combustion, Thermal Structure, and Inner Flow Field		CASC	NWPU

Participation in the 2019 International Workshop on Space Propulsion. See entry 108.

University of Wurzburg

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
115	2013-2017	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU

Alleged work/study agreement with PRC military lab. See entry 115.

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
20	2018	Conference	Aerospace, Propulsion	Aviation Plasma Dynamics	AFEU NUDT		NWPU
38	Ongoing?	Institutional Collab	Materials	Composite Material Tech. in Special Env.			HIT

Alleged collaboration with PRC defense research lab. See entry 38.

42	2020	Conference	Communications, Electromagnetic Tech, Materials	Electromagnetic Compatibility		CSSC	NWPU
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Participation in the 2020 IEEE International Microwave Symposium Series - Advanced Materials and Processes for RF and Terahertz Applications. See entry 42.

43	2020	Conference	Electromagnetic Tech	Electromagnetic Compatibility		CAEP CETC CSSC	
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Participation in the 2020 6th IEEE Global Electromagnetic Compatibility Conference. See entry 43.

53	Ongoing?	Institutional Collab	Unknown	Explosive Combustion		Norinco	
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Alleged exchange with PRC military-affiliated research institute. See entry 53.

93	Ongoing?	Institutional Collab	Unknown	Parallel and Distributed Processing	NUDT		
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Alleged relationship with PRC military research lab. See entry 93.

Greece

Aristotle University of Thessaloniki

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
17	2022	Conference	Aerospace, Energy, Propulsion	Aviation Engine High-Altitude Simulation Tech.		AECC CASIC	
Participation in the 2022 Forum of the Global Power & Propulsion Society. See entry 17.							
26	2024	Conference	Communications	Communications Anti-Jamming Tech.		Huawei ZTE	
Participation in the 2024 24th International Conference on Communication Technology. See entry 26.							

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
79	2024	Conference	Munitions	Materials Tech. in Impact Environments		Norinco	BIT
Participation in the 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.							

India

Alliance University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
110	2018- 2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST
Participation in the International Conference on Defense Technology. See entry 110.							

ELCOMA

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT
Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.							

Government Polytechnic

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT

Participation in the 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.

50	2020	Conference	Communications	Electronic Information Control		CETC	
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Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.

Hooghly Engineering & Technology College

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT

Participation in the 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.

50	2020	Conference	Communications	Electronic Information Control		CETC	
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Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.

IIT Bombay

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU BIT

Participation in the 2024 22nd International Corrosion Congress. See entry 77.

IIT Kanpur

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT

Participation the 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.

50	2020	Conference	Communications	Electronic Information Control		CETC	
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Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.

Jaypee University of Information Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT

Participation in the 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.

50	2020	Conference	Communications	Electronic Information Control		CETC	
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Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.

RIT India

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST

Participation in the International Conference on Defense Technology. See entry 110.

Sri Krishna Polytechnic College

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT

Participation in the 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.

50	2020	Conference	Communications	Electronic Information Control		CETC	
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Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
79	2024	Conference	Munitions	Materials Tech. in Impact Environments		Norinco	BIT

Participation in the 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.

International Organizations

European UAV Training and Operation Association*

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
32	2023-2025	Conference	Unmanned Systems	Communications Countermeasures Tech.	AMS NUDT	AVIC CETC CASC CASIC	Beihang HEU NUAA

Participation in the 2025 International Conference on UAV Application and 6th China International UAV and Anti-UAV. See entry 32.

*Translation from Chinese author's own. Real name unknown.

IEEE Electromagnetic Compatibility Society

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
43	2020	Conference	Electromagnetic Tech	Electromagnetic Compatibility		CAEP CETC CSSC	

Participation in the 2020 6th IEEE Global Electromagnetic Compatibility Conference. See entry 43.

Institute of Electrical and Electronics Engineers (IEEE)

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
48	2019	Conference	Aerospace, AI/ML, Unmanned Systems	Electromechanical Engineering and Control	NUDT	CASIC China C2 Society Norinco	BIT NWPU

Participation in the 2019 2nd IEEE International Conference on Unmanned Systems. See entry 48.

61	2021	Conference	Acoustics	Hydroacoustic Countermeasure Technology Underwater Measurement and Control Technology	DNA NRA		HEU
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Participation in the 2021 IEEE/OES China Ocean Acoustics Conference. See entry 61.

128	2021	Conference	Acoustics	Underwater Measurement and Control Technology		CSSC	
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Participation in the China International Conference on Ocean Acoustics and Science and Technology Competition on Hydroacoustic and Ocean Technology. See entry 128.

International Atomic Energy Agency (IAEA)

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
84	Ongoing?	Institutional Collab	Measurement Tech, Nuclear Tech	Metrology and Calibration Technology		AVIC CASIC CNNC	

Participation in the International Committee for Weights and Measures' (ICWM) Consultative Committee for Ionizing Radiation (CCRI) (neutron branch), in which a PRC defense research lab also takes part. See entry 84.

90	Ongoing?	Institutional Collab	Nuclear Tech	Nuclear Data		CNNC	
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Cooperation with a PRC nuclear research lab. See entry 90.

International Committee for Weights and Measures

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
84	Ongoing?	Institutional Collab	Measurement Tech, Nuclear Tech	Metrology and Calibration Technology		AVIC CASIC CNNC	

Participation in the International Committee for Weights and Measures' (ICWM) Consultative Committee for Ionizing Radiation (CCRI) (neutron branch), in which a PRC defense research lab also takes part. See entry 84.

International Organization for Ship Standardization and Offshore Technical Committee

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
78	2023	Institutional Collab	AI/ML, Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	

Participation in the International Organization for Ship Standardization and Offshore Technical Committee Working Group on Intelligent Shipping and Workshop on International Standards for Intelligent Shipping. See entry 78.

Iran

Mapna Group

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
17	2022	Conference	Aerospace, Energy, Propulsion	Aviation Engine High-Altitude Simulation Tech.		AECC CASIC	

Participation in the 2022 Forum of the Global Power & Propulsion Society. See entry 17.

Ireland

National University of Ireland Galway

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
4	2024	Conference	Hypersonic Tech, Propulsion, Rockets	Aero-Engine Aerodynamics and Thermodynamics	AFEU AMS SEU Unit 32178	AECC AVIC CAEP	Beihang BIT HEU NUST NWPU

Participation in the 9th National Young Scholar Meeting on Combustion Research. See entry 4.

Trinity College Dublin

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
18	2023	Conference	Materials	Aviation Plasma Dynamics	AFEU	AVIC CASC CSSC Norinco	HIT

Participation in the 2023 International Conference on Surface Science Technology and Application. See entry 18.

Israel

Technion-Israel Institute of Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT

Participation in 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.

50	2020	Conference	Communications	Electronic Information Control		CETC	
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Participation in 2020 12th International Conference on Communication Software and Networking. See entry 50.							
79	2024	Conference	Munitions	Materials Tech. in Impact Environments		Norinco	BIT
Participation in 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.							
123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NRA NUDT	CASIC	Beihang BIT NWPU
Participation in 2024 International Conference on Autonomous Unmanned Systems. See entry 123.							

Tel Aviv University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
109	2019	Conference	Munitions, Propulsion, Rockets	Space Chemical Power Technology		CAEP CASC China Ordnance Society	NUST
Participation in 13th International Autumn Symposium on Propellants, Explosives and Pyrotechnics. See entry 109.							

Italy

Federazione Aziende Italiane per l'Aerospazio, la Difesa e la Sicurezza (AIAD)

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
32	2023-2025	Conference	Unmanned Systems	Communications Countermeasures Tech.	AMS NUDT	AVIC CASC CASIC CETC	Beihang HEU NUAA
Participation in the 2025 International Conference on UAV Application and the 6th China International UAV and Anti-UAV. See entry 32.							

Parthenope University of Naples

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
99	2019	Conference	AI/ML, Radar	Radar Signal Processing			
Participation in the 2019 2nd International Workshop on Signal and Information Intelligent Learning and Processing. See entry 99.							

Piaggio Aerospace

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
17	2022	Conference	Aerospace, Energy, Propulsion	Aviation Engine High-Altitude Simulation Tech.		AECC CASIC	
Participation in the 2022 Forum of the Global Power & Propulsion Society. See entry 17.							

Polytechnic University of Milan

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
43	2020	Conference	Electromagnetic Tech	Electromagnetic Compatibility		CAEP CETC CSSC	

Participation in the 2020 6th IEEE Global Electromagnetic Compatibility Conference. See entry 43.

109	2019	Conference	Munitions, Propulsion, Rockets	Space Chemical Power Technology		CAEP CASC China Ordnance Society	NUST
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Participation in 13th International Autumn Symposium on Propellants, Explosives and Pyrotechnics. See entry 109.

110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST
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Participation in the International Conference on Defense Technology. See entry 110.

Polytechnic University of Turin

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in 2024 22nd International Corrosion Congress. See entry 77.

Ricerca sul Sistema Energetico

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in 2024 22nd International Corrosion Congress. See entry 77.

Sant'Anna School of Advanced Studies

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
98	2021	Conference	Radar	Radar Signal Proc.	NUDT	CETC	

Participation in 2021 CIE International Radar Conference. See entry 98.

Sapienza University of Rome

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT

Participation in 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.							
50	2020	Conference	Communications	Electronic Information Control		CETC	
Participation in 2020 12th International Conference on Communication Software and Networking. See entry 50.							
76	2018-Ongoing?	Institutional Collab	Propulsion, Rockets	Liquid Rocket Engine Technology		CASC	
Establishment of joint rocket engine lab with a PRC defense research lab. See entry 76.							

University of Florence

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST
Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.							

University of Insubria

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
71	2022	Conference	Computer Technology	Information System Security Technology	AMS		NWPU
Participation in the 2022 7th International Conference on Data Science in Cyberspace. See entry 71.							

University of Naples

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
17	2022	Conference	Aerospace, Energy, Propulsion	Aviation Engine High-Altitude Simulation Tech.		AECC CASIC	
Participation in the 2022 Forum of the Global Power & Propulsion Society. See entry 17.							

University of Palermo

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
58	2023	Conference	Manufacturing, Materials	High Energy Beam Processing Tech.		AVIC	
Participation in the 2023 International Conference on Lightweight Materials and Manufacture. See entry 58.							

University of Pisa

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
73	2024	Conference	Electromagnetic Tech, Sensing	Infrared Sensing		CETC Norinco	

Participation in the 2024 3rd International Conference on Earth and Space: From Infrared to Terahertz. See entry 73.							
98	2021	Conference	Radar	Radar Signal Processing	NUDT	CETC	
Participation in the 2021 CIE International Radar Conference. See entry 98.							
99	2019	Conference	AI/ML, Radar	Radar Signal Processing			
Participation in the 2019 2nd International Workshop on Signal and Information Intelligent Learning and Processing. See entry 99.							
100	2018	Institutional Collab	AI/ML, Radar	Radar Signal Processing			
Alleged establishment of a joint research center with PRC defense research lab. See entry 100.							
115	2013-2017	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
Alleged work/study agreement with PRC military lab. See entry 115.							

University of Siena

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
13	2024	Conference	AI/ML, Electromagnetic Tech	Antennas and Microwave Tech. Electromechanical Engineering and Control Communications Countermeasures Tech.		CETC Norinco	BIT
Participation in 14th International Conference on Antennas, Propagation and Electromagnetic Theory. See entry 13.							

Japan

Chiba University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
13	2024	Conference	AI/ML, Electromagnetic Tech	Antennas and Microwave Tech. Electromechanical Eng. and Control Communications Countermeasures Tech.		CETC Norinco	BIT

Participation in 14th International Conference on Antennas, Propagation and Electromagnetic Theory. See entry 13.

34	2018	Conference	Communications Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST
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Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

DoCoMo

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
28	Ongoing?	Institutional Collab	Unknown	Communications Anti-Jamming Tech.			

Alleged cooperation with a PRC defense research lab. See entry 28.

Hiroshima University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
103	2024	Conference	Reliability Engineering	Reliability & Environmental Engineering Tech.	NUDT	CASC China Ordnance Society	Beihang BIT NUST

Participation in the 2024 15th International Conference on Reliability, Maintainability and Safety. See entry 103.

Hokkaido University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
89	2018	Conference	Nuclear Tech	Nuclear Data		CNNC	

Participation in the 2018 9th Asian Nuclear Reaction Database Progress Workshop. See entry 89.

Hosei University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST

Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

Japan Society of Aeronautical and Space Sciences

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
70	2018	Conference	Aerospace, Materials, Propulsion, Rockets	Hypersonic Ramjet Technology	NUDT PLASSF	AECC CASC	

Participation in the 2018 9th Asian Joint Conference on Propulsion and Power. See entry 70.

Kagakuin University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
50	2020	Conference	Communications	Electronic Information Control		CETC	

Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.

Keio University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
62	2024	Conference	Acoustics	Hydroacoustic Tech.			HEU

Participation in the China International Conference on Ocean Acoustics. See entry 62.

Kobe University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
19	2019	Conference	Aerospace	Aviation Plasma Dynamics	AFEU	AECC	BIT NUAA NWPU

Participation in 2019 1st International Symposium on Thermal-Fluid Dynamics. See entry 19.

Kumamoto University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
79	2024	Conference	Munitions	Materials Tech. in Impact Environments		Norinco	BIT

Participation in 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.

Mitsubishi

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
130	2019	Conference	Ground Vehicles	Vehicle Transmissions		Norinco	Beihang BIT

Participation in 2019 International Conference on Rotating Machinery Transmission and Control. See entry 130.

Nagasaki University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST

Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

Nagoya University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
20	2018	Conference	Aerospace, Propulsion	Aviation Plasma Dynamics	AFEU NUDT		NWPU

Participation in 2018 9th International Workshop on Detonation for Propulsion. See Entry 20.

54	2023	Conference	Semiconductors	Gallium Arsenide Microwave and Millimeter Wave Monolithic and Modular Circuitry		CETC ZTE	
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Participation in the 2023 8th International Forum on Third Generation Semiconductors (IFWS) & the 19th China International Semiconductor Lighting Forum. See entry 54.

National Institute for Materials Science

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC C PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT

Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.

Nihon University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
68	2024	Conference	Maritime Tech	Hydrodynamics		CSSC	

Participation in the 2024 7th Symposium on Computational Marine Hydrodynamic. See entry 68.

Nippon Telegraph and Telephone

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT

Participation in 2024 21st Sino-International Forum on Semiconductor Lighting and International Forum for 3rd Generation Semiconductors. See entry 117.

Okayama University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
24	2025	Conference	AI/ML, Communications	Communications Anti-Jamming Tech.			NWPU

Participation in the 2025 10th International Conference on Computer and Communications Systems. See entry 24.

Osaka Metropolitan University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT

Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.

Tohoku University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	
Alleged unspecified cooperative relationship with PRC military-affiliated research lab. See entry 16.							
26	2024	Conference	Communications	Communications Anti-Jamming Tech.		Huawei ZTE	
Participation in 2024 24th International Conference on Communication Technology. See entry 26.							
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST
Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.							

Tokushima University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT
Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.							

Toshiba

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
59	2016-2018	Conference	Aerospace, Manufacturing	High Energy Beam Processing Tech.		AVIC	
Participation in the 2016 and 2018 International Conference on Power Beam Processing Technologies. See entry 59.							

University of Tokyo

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	
Alleged unspecified cooperative relationship with PRC military-affiliated research lab. See entry 16.							
70	2018	Conference	Aerospace, Materials, Propulsion, Rockets	Hypersonic Ramjet Technology	NUDT PLASSF	AECC CASC	
Participation in the 2018 9th Asian Joint Conference on Propulsion and Power. See entry 70.							

University of Tsukuba

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
71	2022	Conference	Computer Technology	Information System Security Technology	AMS		NWPU

Participation in the 2022 7th International Conference on Data Science in Cyberspace. See entry 71.

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
43	2022	Conference	Electromagnetic Tech	Electromagnetic Compatibility		CAEP CETC CSSC	

Participation in the 2020 6th IEEE Global Electromagnetic Compatibility Conference. See entry 43.

53	Ongoing?	Institutional Collab	Unknown	Explosive Combustion		Norinco	
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Alleged personnel training and exchanges with PRC military-affiliated research institute. See entry 53.

Waseda University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT

Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.

Korea

Chungnam National University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
18	2023	Conference	Materials	Aviation Plasma Dynamics	AFEU	AVIC CASC CSSC Norinco	HIT

Participation in the 2023 International Conference on Surface Science Technology and Application. See entry 18.

Corrosion Science Society of Korea

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in the 2024 22nd International Corrosion Congress. See entry 77.

Dong-eui University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT

Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and International Forum for 3rd Generation Semiconductors. See entry 117.

Hanyang University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	

Alleged unspecified cooperative relationship with PRC military-affiliated research lab. See entry 16.

45	2019	Institutional Collab	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Environment Effects and Electro-Optical Engineering	AEU		
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Participation in the First Plenary Session of the International Academic Committee of the National International Joint Research Center for Transient Electromagnetic Environment and Applications, which was vice chaired by a PRC military research lab. See entry 45.

73	2024	Conference	Electromagnetic Tech, Sensing			CETC Norinco	
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Participation in the 2024 3rd International Conference on Earth and Space: From Infrared to Terahertz. See entry 73.

Inha University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
44	2019	Conference	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Compatibility	AEU NUDT	AVIC CAEP	

Participation in the 2019 Asian Electromagnetics Conference. See entry 44.

Korea Advanced Institute of Science & Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
18	2023	Conference	Materials	Aviation Plasma Dynamics	AFEU	AVIC CASC CSSC Norinco	HIT

Participation in the 2023 International Conference on Surface Science Technology and Application. See entry 18.

Korea Aerospace University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
44	2019	Conference	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Compatibility	AEU NUDT	AVIC CAEP	
Participation in the 2019 Asian Electromagnetics Conference. See entry 44.							
59	2016-218	Conference	Aerospace, Manufacturing	High Energy Beam Processing Tech.		AVIC	
Participation in the 2016 and 2018 International Conference on Power Beam Processing Technologies. See entry 59.							
70	2018	Conference	Aerospace, Materials, Propulsion, Rockets	Hypersonic Ramjet Technology	NUDT PLASSF	AECC CASC	
Participation in the 2018 9th Asian Joint Conference on Propulsion and Power. See entry 70.							

Korea Atomic Energy Research Institute

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
89	2018	Conference	Nuclear Tech	Nuclear Data		CNNC	
Participation in the 2018 9th Asian Nuclear Reaction Database Progress Workshop. See entry 89.							

Korea Institute for Defense Analysis

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
44	2019	Conference	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Compatibility	AEU NUDT	AVIC CAEP	
Participation in the 2019 Asian Electromagnetics Conference. See entry 44.							

Korea Institute of Materials and Science

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
18	2023	Conference	Materials	Aviation Plasma Dynamics	AFEU	AVIC CASC CSSC Norinco	HIT
Participation in the 2023 International Conference on Surface Science Technology and Application. See entry 18.							

Korea University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT
Participation in the 2024 22nd International Corrosion Congress. See entry 77.							

Korean Society of Propulsion Engineers

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
70	2018	Conference	Aerospace, Materials, Propulsion, Rockets	Hypersonic Ramjet Technology	NUDT PLASSF	AECC CASC	

Participation in the 2018 9th Asian Joint Conference on Propulsion and Power. See entry 70.

Kyungpook National University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
89	2018	Conference	Nuclear Tech	Nuclear Data		CNNC	

Participation in the 2018 9th Asian Nuclear Reaction Database Progress Workshop. See entry 89.

LG

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
28	Ongoing?	Institutional Collab	Unknown	Communications Anti-Jamming Tech.			

Alleged cooperation with a PRC defense research lab. See Entry 28.

Pohang University of Science and Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
13	2024	Conference	AI/ML, Electromagnetic Tech	Antennas and Microwave Tech. Electromechanical Engineering and Control Communications Countermeasures Tech.		CETC Norinco	BIT

Participation in the 2024 14th International Conference on Antennas, Propagation and Electromagnetic Theory. See entry 13.

Sungkyunkwan University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	

Alleged unspecified cooperative relationship with PRC military-affiliated research lab. See entry 16.

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
20	2018	Conference	Aerospace, Propulsion	Aviation Plasma Dynamics	AFEU NUDT		NWPU
Participation in the 2018 9th International Workshop on Detonation for Propulsion. See Entry 20.							
109	2019	Conference	Munitions, Propulsion, Rockets	Space Chemical Power Technology		CAEP CASC Norinco China Ordnance Society	NUST
Participation in the 13th International Autumn Symposium on Propellants, Explosives and Pyrotechnics. See entry 109.							

Netherlands

Ampleon

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT
Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.							

Avantes

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
122	2020	Institutional Visits/ Exchange	Unknown	Tunable Gas Lasers			HIT
Visit and lecture on product design to PRC defense research lab.							

Delft University of Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
10	2007-2016	Institutional Collab	Aerodynamics	Airfoil and Blading Aerodynamics			NWPU
Alleged creation of a joint research base with PRC defense lab. See entry 10.							
48	2019	Conference	Aerospace, AI/ML, Unmanned Systems	Electromechanical Engineering and Control	NUDT	CASIC China C2 Society Norinco	BIT NWPU
Participation in the 2019 2nd IEEE International Conference on Unmanned Systems. See entry 48.							
54	2023	Conference	Semiconductors	Gallium Arsenide Microwave and Millimeter Wave		CETC	

				Monolithic and Modular Circuitry			
Participation in the 2023 8th International Forum on Third Generation Semiconductors (IFWS) & the 19th China International Semiconductor Lighting Forum. See entry 54.							
68	2024	Conference	Maritime Tech	Hydrodynamics		CSSC	
Participation in the 2024 7th Symposium on Computational Marine Hydrodynamics. See entry 68.							
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT
Participation in the 2024 22nd International Corrosion Congress. See entry 77.							
111	2018-Ongoing?	Institutional Collab	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
Alleged cooperation agreement with PRC military research lab. See entry 111.							
115	2013-2017	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
Alleged study and training of grad students from a PRC military research lab. See entry 115.							
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT
Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and International Forum for 3rd Generation Semiconductors. See entry 117.							
123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NRA NUDT	CASIC	Beihang BIT NWPU
Participation in the 2024 International Conference on Autonomous Unmanned Systems. See entry 123.							

International Association for the Advancement of Space Safety Netherlands

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
103	2024	Conference	Reliability Engineering	Reliability & Environmental Engineering Tech.	NUDT	CASC China Ordnance Society	Beihang BIT NUST
Participation in the 2024 15th International Conference on Reliability, Maintainability and Safety. See entry 103.							

LioniX

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
12	2024	Conference	Radar	Antennas and Microwave Tech.	AFEWC NUDT	AVIC CASC CASIC CETC	BIT NUAA
Participation in the 2024 29th Conference on Microwave Photonics Technology and Applications. See entry 12.							

Philips

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
28	Ongoing?	Institutional Collab	Unknown	Communications Anti-Jamming Tech.			

Alleged cooperation with a PRC defense research lab. See entry 28.

University of Twente

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
9	2017-Ongoing?	Institutional Collab	Aerodynamics	Airfoil and Blading Dynamics			NWPU

Alleged establishment of a joint research base with a PRC defense lab. See entry 9.

URSI Commission J

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST

Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

New Zealand

Massey University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	

Alleged unspecified cooperative relationship with PRC military-affiliated research lab. See entry 16.

New Zealand Royal Academy of Engineering

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
120	2016	Conference	Materials	Surface Physics and Chemistry		CAEP	

Participation in the 2016 7th International Conference on Surface Engineering. See entry 120.

University of Otago

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
103	2024	Conference	Reliability Engineering	Reliability & Environmental Engineering Tech.	NUDT	CASC China Ordnance Society	Beihang BIT NUST

Participation in the 2024 15th International Conference on Reliability, Maintainability and Safety. See entry 103.

University of Waikato

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
96	2018	Research Collab	Materials	Precision Hot Processing of Metals			HIT

Research collaboration on materials science with PRC defense research lab. See entry 96.

Norway

University of Oslo

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
26	2024	Conference	Communications	Communications Anti-Jamming Tech.		Huawei ZTE	
61	2021	Conference	Acoustics	Hydroacoustic Countermeasure Technology Underwater Measurement and Control Technology			

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
79	2024	Conference	Munitions	Materials Tech. in Impact Environments		Norinco	BIT

Participation in the 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.

Philippines

John Paul College

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
24	2025	Conference	AI/ML, Communications	Communications Anti-Jamming Tech.			NWPU

Participation in the 2025 10th International Conference on Computer and Communications Systems. See entry 24.

Technological Institute of the Philippines

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
24	2025	Conference	AI/ML, Communications	Communications Anti-Jamming Tech.			NWPU

Participation in the 2025 10th International Conference on Computer and Communications Systems. See entry 24.

Poland

Institute of Fundamental Technologies

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
58	2023	Conference	Manufacturing, Materials	High Energy Beam Processing Tech.		AVIC	

Participation in the 2023 International Conference on Lightweight Materials and Manufacture. See entry 58.

Military Institute of Armament Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
110	2018- 2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Env.	AEU NUE NUDT	CAEP CASC Norinco	BIT NUST

Participation in International Conference on Defense Technology. See entry 110.

Military University of Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
73	2024	Conference	Electromagnetic Tech, Sensing	Infrared Sensing		CETC Norinco	

Participation in 2024 3rd International Conference on Earth and Space: From Infrared to Terahertz. See entry 73.

Polish Academy of Sciences

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT

Participation in 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.

Warsaw University of Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
20	2018	Conference	Aerospace, Propulsion	Aviation Plasma Dynamics	AFEU NUDT		NWPU

Participation in the 2018 9th International Workshop on Detonation for Propulsion. See Entry 20.

109	2019	Conference	Munitions, Propulsion, Rockets	Space Chemical Power Technology		CAEP CASC China Ordnance Society Norinco	NUST
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Participation in the 13th International Autumn Symposium on Propellants, Explosives and Pyrotechnics. See entry 109.

Portugal

University of Algarve

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
61	2021	Conference	Acoustics	Hydroacoustic Counter. Tech. Underwater Meas. and Control Tech.	DNA NRA		HEU

Participation in 2021 IEEE/OES China Ocean Acoustics Conference. See entry 61.

University of Coimbra

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in the 2024 22nd International Corrosion Congress. See entry 77.

University of Evora

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT

Participation in 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.

50	2020	Conference	Communications	Communications Countermeasures Tech.		CETC	
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Participation in 2020 12th International Conference on Communication Software and Networking. See entry 50.

University of Lisbon

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
68	2024	Conference	Maritime Tech	Hydrodynamics		CSSC	
Participation in the 2024 7th Symposium on Computational Marine Hydrodynamics. See Entry 68.							
69	2021	Conference	Aerodynamics, Aerospace, Propulsion	Hypersonic Ramjet Technology	AFEU NUDT PLASSF	CASC	Beihang HEU HIT NUAA NWPU

Participation in the 2021 2nd International Symposium on Thermal-Fluid Dynamics. See entry 69.

Russia

Bauman Moscow State Technical University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
7	2022- 2024	Conference	GNC	Aircraft Control and Integration Tech.	NUDT	AVIC CASC CAS-IA CSSC Norinco	Beihang HEU NUAA NWPU

Participation in the International Conference on Guidance, Navigation, and Control. See entry 7.

130	2019	Conference	Ground Vehicles	Vehicle Transmission		Norinco	Beihang BIT
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Participation in the 2019 International Conference on Rotating Machinery Transmission and Control. See entry 130.

D.V. Efremov Institute of Electrophysical Apparatus

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
110	2018- 2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Tech. Ballistics Materials Tech. in Impact Env.	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST

Participation in the International Conference on Defense Technology. See entry 110.

Far Eastern Federal University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
63	2020	Conference	Acoustics, AI/ML, Sensing	Hydroacoustic Tech.			HEU

Participation in the International Forum of Ocean Information 2020. See entry 63.

Institute of Chemical Dynamics and Combustion

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
40	2018	Conference	Materials, Munitions	Detonator Safety and Reliability		CAEP Norinco	BIT NUAA NWPU

Participation in the 4th International Symposium on Nanostructured Energetic Materials and Applied Technology. See entry 40.

Joint Institute for High Temperatures

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
45	2019	Institutional Collab	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Environment Effects and Electro-Optical Engineering	AEU		

Participation in First Plenary Session of the International Academic Committee of the National International Joint Research Center for Transient Electromagnetic Environment and Applications, which was vice chaired by a PRC military research lab. See entry 45.

Mendeleev University of Chemical Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Env.	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST

Participation in the International Conference on Defense Technology. See entry 110.

Moscow State Technological University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
18	2023	Conference	Materials	Aviation Plasma Dynamics	AFEU	AVIC CASC CSSC Norinco	HIT

Participation in the 2023 International Conference on Surface Science Technology and Application. See entry 18.

Moscow State University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
108	2019	Conference	Propulsion, Rockets	Solid Rocket Engine Combustion, Thermal		CASC	NWPU

				Structure, and Inner Flow Field			
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Participation in the 2019 International Workshop on Space Propulsion. See entry 108.

Novosibirsk State Technical University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
79	2024	Conference	Munitions	Materials Tech. in Impact Environments		Norinco	BIT

Participation in the 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.

Russian Academy of Sciences

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
69	2021	Conference	Aerodynamics, Aerospace, Propulsion	Hypersonic Ramjet Technology	AFEU NUDT PLASSF	CASC	Beihang HEU HIT NUAA NWPU

Participation in the 2021 2nd International Symposium on Thermal-Fluid Dynamics. See entry 69.

73	2024	Conference	Electromagnetic Tech, Sensing	Infrared Sensing		CETC Norinco	
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Participation in the 2024 3rd International Conference on Earth and Space: From Infrared to Terahertz. See entry 73.

79	2024	Conference	Munitions	Materials Tech. in Impact Env.		Norinco	BIT
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Participation in the 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.

Russian Technological University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
57	Ongoing?	Institutional Collab	Helicopter Tech	Helicopter Rotor Dynamics			NUAA

Alleged establishment of joint research center with PRC defense research lab and U.K. universities. See entry 57.

Semenov Institute of Chemistry

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
40	2018	Conference	Materials, Munitions	Detonator Safety and Reliability		CAEP Norinco	BIT NUAA NWPU

Participation in the 2018 4th International Symposium on Nanostructured Energetic Materials and Applied Technology. See entry 40.

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
38	Ongoing?	Institutional Collab	Materials	Composite Material Tech. in Special Env.			HIT

Alleged cooperation with PRC defense research lab. See entry 38.

53	Ongoing?	Institutional Collab	Unknown	Explosive Combustion		Norinco	
Alleged study and exchange with PRC military-affiliated research Institute. See entry 53.							
75	2019	Conference	Propulsion, Rockets	Liquid Rocket Engine Technology		CASC	
Participation in the 2019 International Workshop on Space Propulsion Technology. See entry 75.							
109	2019	Conference	Munitions, Propulsion, Rockets	Space Chemical Power Technology		CAEP CASC China Ordnance Society Norinco	NUAA
Participation in 13th International Autumn Symposium on Propellants, Explosives and Pyrotechnics. See entry 109.							

Saudi Arabia

King Abdullah University of Science and Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
50	2020	Conference	Communications	Electronic Information Control		CETC	
Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.							
54	2023	Conference	Semiconductors	Gallium Arsenide Micro and Millimeter Wave...		CETC ZTE	
Participation in the 2023 8th International Forum on Third Generation Semiconductors (IFWS) & the 19th China International Semiconductor Lighting Forum. See entry 54.							
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT
Participation in 2024 21st Sino-International Forum on Semiconductor Lighting and International Forum for 3rd Generation Semiconductors. See entry 117.							

Singapore

ASTAR

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
26	2024	Conference	Communications	Communications Anti-Jamming Tech.		Huawei ZTE	
Participation in the 2024 24th International Conference on Communication Technology. See entry 26.							
31	2024-2025	Conference	Communications	Communications			
Participation in 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.							
63	2020	Conference	Acoustics, AI/ML, Sensing	Hydroacoustic Tech.			HEU
Participation in the International Forum of Ocean Information 2020. See entry 63.							

Dongguan University of Technology Singapore

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST

Participation in the International Conference on Defense Technology. See entry 110.

Institute of Manufacturing Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
58	2023	Conference	Manufacturing, Materials	High Energy Beam Processing Tech.		AVIC	

Participation in the 2023 International Conference on Lightweight Materials and Manufacture. See entry 58

Nanyang Technological University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
4	2024	Conference	Hypersonic Tech, Propulsion, Rockets	Aero-Engine Aerodynamics and Thermodynamics	AFEU AMS NUDT SEU Unit 32178	AECC AVIC CAEP	Beihang BIT HEU NUAA NWPU

Participation in the 9th National Young Scholar Meeting on Combustion Research. See entry 4.

16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	
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Alleged cooperative relationship with PRC defense lab. See entry 16.

26	2024	Conference	Communications	Communications Anti-Jamming Tech.		Huawei ZTE	
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Participation in the 2024 24th International Conference on Communication Technology. See entry 26.

34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST
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Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See Entry 34.

48	2019	Conference	Aerospace, AI/ML, Unmanned Systems	Electromechanical Engineering and Control	NIDT	CASIC China C2 Society Norinco	BIT NWPU
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Participation in the 2019 2nd IEEE International Conference on Unmanned Systems. See entry 48.							
73	2024	Conference	Electromagnetic Tech, Sensing	Infrared Sensing		CETC Norinco	
Participation in the 2024 3rd International Conference on Earth and Space: From Infrared to Terahertz. See entry 73.							
80	2018	Conference	Materials	Materials Tech. in Impact Environments		Norinco	BIT NUAA NWPU
Participation in the 2018 International Symposium on Advanced Materials Research. See entry 80							
123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NRA NUDT	CASIC	Beihang BIT NWPU
Participation in the 2024 International Conference on Autonomous Unmanned Systems. See entry 123.							

National University of Singapore

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
4	2024	Conference	Hypersonic Tech, Propulsion, Rockets	Aero-Engine Aerodynamics and Thermodynamics	AFEU AMS NUDT SEU Unit 32178	AECC AVIC CAEP	Beihang BIT HEU NUST NWPU
Participation in the 9th National Young Scholar Meeting on Combustion Research. See entry 4.							
9	2017- Ongoing?	Institutional Collab	Aerodynamics	Airfoil and Blading Aerodynamics			NWPU
Alleged establishment of a joint research base with a PRC defense lab. See entry 9.							
15	2015- Ongoing?	Institutional Visits/ Exchange	Unknown	Antennas and Microwave Tech.		CETC	
Alleged exchange with PRC defense research lab. See entry 15.							
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	
Alleged unspecified cooperative relationship with PRC military-affiliated research lab. See entry 16.							
19	2019	Conference	Aerospace	Aviation Plasma Dynamics	AFEU	AECC	BIT NUAA NWPU
Participation in the 2019 1st International Symposium on Thermal-Fluid Dynamics. See entry 19.							
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST
Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.							
42	2020	Conference	Communications, Electromagnetic Tech, Materials	Electromagnetic Compatibility	CSSC		NWPU
Participation in the 2020 IEEE International Microwave Symposium Series - Advanced Materials and Processes for RF and Terahertz Applications. See entry 42.							

62	2024	Conference	Acoustics	Hydroacoustic Tech.			HEU
Participation in the China International Conference on Ocean Acoustics. See entry 62.							
68	2024	Conference	Maritime Tech	Hydrodynamics		CSSC	
Participation in the 2024 7th Symposium on Computational Marine Hydrodynamics. See entry 68.							
69	2021	Conference	Aerodynamics, Aerospace, Propulsion	Hypersonic Ramjet Technology	AFEU NUDT PLASSF	CASC	Beihang HEU HIT NUAA NWPU
Participation in the 2021 2nd International Symposium on Thermal-Fluid Dynamics. See entry 69.							
79	2024	Conference	Munitions	Materials Tech. in Impact Environments		Norinco	BIT
Participation in the 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.							
103	2024	Conference	Reliability Engineering	Reliability & Environmental Engineering Tech.	NUDT	CASC China Ordnance Society	Beihang BIT NUST
Participation in the 2024 15th International Conference on Reliability, Maintainability and Safety. See entry 103.							
110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Env.	AFEU NEU NUDT	CAEP CASC Norinco	BIT NUST
Participation in the International Conference on Defense Technology. See entry 110.							
123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NRA NUDT	CASIC	Beihang BIT NWPU
Participation in the 2024 International Conference on Autonomous Unmanned Systems. See entry 123.							

SIMTech

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
18	2023	Conference	Materials	Aviation Plasma Dynamics	AFEU	AVIC CASC CSSC Norinco	HIT
Participation in the 2023 International Conference on Surface Science Technology and Application. See entry 18.							

Singapore University of Technology and Design

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
24	2025	Conference	AI/ML, Communications	Communications Anti-Jamming Tech.			NWPU
Participation in the 2025 10th International Conference on Computer and Communications Systems. See entry 24.							
26	2024	Conference	Communications	Communications Anti-Jamming Tech.		Huawei ZTE	
Participation in the 2024 24th International Conference on Communication Technology. See entry 26.							

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
20	2018	Conference	Aerospace, Propulsion	Aviation Plasma Dynamics	AFEU NUDT		NWPU
Participation in the 2018 9th International Workshop on Detonation for Propulsion. See entry 20.							
37	2015-Ongoing?	Institutional Collab	Materials	Composite Material Tech. in Special Env.			HIT
Alleged unspecified cooperation agreement with PRC defense research institute. See entry 37.							
38	Ongoing?	Institutional Collab	Materials	Composite Material Tech. in Special Env.			HIT
Alleged cooperation with PRC defense research lab. See entry 38.							
93	Ongoing?	Institutional Collab	Unknown	Parallel and Distributed Processing	NUDT		
Alleged cooperation agreement with PRC military computing lab. See entry 93.							

Slovenia

Jožef Stefan Institute

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT
Participation in the 2024 22nd International Corrosion Congress. See entry 77.							

Pipistrel Vertical Solutions

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
17	2022	Conference	Aerospace, Energy, Propulsion	Aviation Engine High-Altitude Simulation Tech.		AECC CASIC	
Participation in the 2022 Forum of the Global Power & Propulsion Society. See entry 17.							

University of Maribor

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
79	2024	Conference	Munitions	Materials Tech. in Impact Environments		Norinco	BIT
Participation in the 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.							

Spain

Charles III University of Madrid

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
34	2018	Conference	Communications, Radar	Communications Countermeasures Tech.	NUDT	CETC	Beihang BIT HIT NUST

				Electronic Information Control			
				Radio Wave Env. Characteristics and Modeling Tech.			

Participation in the 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

Polytechnic University of Catalonia

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
47	2023	Conference	Nanotechnology	Electromechanical Engineering and Control	NUDT	CETC CSSC Norinco	Beihang BIT HIT NWPU

Participation in the 2023 25th Annual Conference and the 14th International Conference of the Chinese Society for Micron Nanotechnology. See entry 47.

68	2024	Conference	Maritime Tech	Hydrodynamics		CSSC	
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Participation in the 2024 7th Symposium on Computational Marine Hydrodynamics. See entry 68.

115	2013-2017	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
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Alleged study and training of grad students from a PRC military research lab. See entry 115.

Unknown “Spanish Association for UAVs”*

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
32	2023-2025	Conference	Unmanned Systems	Communications Countermeasures Tech.	AMS NUDT	AVIC CASC CASIC CETC	Beihang HEU NUST

Participation in the 2025 International Conference on UAV Application and the 6th China International UAV and Anti-UAV. See entry 32.

*Translation from Chinese source. While unconfirmed, this is likely either AEDRON (Asociación Española de Drones y Afines) or AERPAS (Asociación Española de RPAS).

Unknown “Spanish Defense, Security, and Aerospace Association”*

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
32	2023-2025	Conference	Unmanned Systems	Communications Countermeasures Tech.	AMS NUDT	AVIC CASC CASIC CETC	Beihang HEU NUST

Participation in the 2025 International Conference on UAV Application and the 6th China International UAV and Anti-UAV. See entry 32.

*Translation from Chinese source. While unconfirmed, this is likely a Chinese translation for the Asociación Española de Empresas Tecnológicas de Defensa, Seguridad, Aeronáutica y Espacio (TEDAE).

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
79	2024	Conference	Munitions	Materials Tech. in Impact Env.		Norinco	BIT

Participation in 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.

Valencia Polytechnic University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
49	2023	Conference	Communications, Electromagnetic Tech, Measurement Tech, Radars, Sensing	Electronic Information Control	AFEU AMS AFEWC	AVIC CASC CETC CSSC	NUAA

Participation in the 2023 8th Conference on Microwave Photonic Technology and Applications. See entry 49.

Sweden

Chalmers University of Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
15	2015-Ongoing?	Institutional Visits/Exchange	Unknown	Antennas and Microwave Tech.		CETC	

Alleged exchange with PRC defense research lab. See entry 15.

KTH Royal Institute of Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
27	Ongoing?	Institutional Collab?	Communications	Communications Anti-Jamming Tech.		CETC	

Alleged grad student joint training agreement with PRC defense research lab. See entry 27.

30	Ongoing?	Institutional Collab	Communications	Communications Anti-Jamming Tech.			
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Establishment of joint communications research center with a PRC defense lab specializing in military communications. See entry 30.

Lulea University of Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
103	2024	Conference	Reliability Engineering	Reliability & Environmental Engineering Tech.	NUDT	CASC China Ordnance Society	Beihang BIT NUST

Participation in the 2024 15th International Conference on Reliability, Maintainability and Safety. See entry 103.

Lund University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
69	2021	Conference	Aerodynamics, Aerospace, Propulsion	Hypersonic Ramjet Technology	AFEU NUDT PLASSF	CASC	Beihang HEU HIT NUAA NWPU

Participation in the 2021 2nd International Symposium on Thermal-Fluid Dynamics. See entry 69.

108	2019	Conference	Propulsion, Rockets	Solid Rocket Engine Combustion, Thermal Structure, and Inner Flow Field		CASC	NWPU
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Participation in the 2019 International Workshop on Space Propulsion. See entry 108.

117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT
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Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.

Malarden University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
17	2022	Conference	Aerospace, Energy, Propulsion	Aviation Engine High-Altitude Simulation Tech.		AECC CASIC	

Participation in the 2022 Forum of the Global Power & Propulsion Society. See entry 17.

SAAB

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
44	2019	Conference	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Compatibility	AEU NUDT	AVIC CAEP	

Participation in the 2019 Asian Electromagnetics Conference. See entry 44.

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
75	2019	Conference	Propulsion, Rockets	Liquid Rocket Engine Technology		CASC	NWPU

Participation in the 2019 International Workshop on Space Propulsion Technology. See Entry 75.

86	2021-Ongoing?	Research Collab	Battery Tech	Nano- and Micro-Fabrication Tech.			
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Alleged research collaboration on advanced energy generation and storage between unidentified Swedish research institution in Gothenburg and PRC defense research lab.

Switzerland

Armasuisse Science and Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
45	2019	Institutional Collab	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Environment Effects and Electro-Optical Engineering	AEU		

Participation in the First Plenary Session of the International Academic Committee of the National International Joint Research Center for Transient Electromagnetic Environment and Applications, which was vice chaired by a PRC military research lab. See entry 45.

Chinese Academy of Sciences Switzerland

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AFEU NEU NUDT	CAEP CASC Norinco	BIT NUST

Participation in the International Conference on Defense Technology. See entry 110.

EMProtec AG

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
45	2019	Institutional Collab	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Environment Effects and Electro-Optical Eng.	AEU		

Participation in the First Plenary Session of the International Academic Committee of the National International Joint Research Center for Transient Electromagnetic Environment and Applications, which was vice chaired by a PRC military research lab. See entry 45.

ETH Zurich

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
17	2022	Conference	Aerospace, Energy, Propulsion	Aviation Engine High-Altitude Simulation Tech.		AECC CASIC	
91	2021	Conference	Radar	Parallel and Distributed Processing	NUDT		

Participation in the 2022 Forum of the Global Power & Propulsion Society. See Entry 17.

Participation in the 2021 Radar Target Detection Challenge. See entry 91.

Kistler

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
107	2015	Institutional Visits/ Exchange	Maritime Tech, Measurement Tech, Propulsion, Sensing	Ship Vibrational Noise	NEU	CSSC	

Visit and discussion of company technologies with PRC military lab. See entry 107.

National Government of Switzerland

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
28	Ongoing?	Institutional Collab	Unknown	Communications Anti-Jamming Tech.			

Alleged cooperation with a PRC defense research lab. See entry 28.

STMicroelectronics

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
28	Ongoing?	Institutional Collab	Unknown	Communications Anti-Jamming Tech.			

Alleged cooperation with a PRC defense research lab. See entry 28.

Swiss Federal Technology Institute of Lausanne

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
43	2020	Conference	Electromagnetic Tech	Electromagnetic Compatibility		CAEP CETC CSSC	

Participation in the 2020 6th IEEE Global Electromagnetic Compatibility Conference. See entry 43.

44	2019	Conference	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Compatibility	AEU NUDT	AVIC CAEP	
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Participation in the 2019 Asian Electromagnetics Conference. See entry 44.

99	2019	Conference	AI/ML, Radar	Radar Signal Processing			
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Participation in the 2019 2nd International Workshop on Signal and Information Intelligent Learning and Processing. See entry 99.

University of Bern

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
63	2020	Conference	Acoustics, AI/ML, Sensing	Hydroacoustic Technology			HEU

Participation in the International Forum of Ocean Information 2020. See entry 63.

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
53	Ongoing?	Institutional Collab	Unknown	Explosive Combustion		Norinco	

Alleged study and exchange with PRC military-affiliated research Institute. See entry 53.

Taiwan

Chang Gung University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT

Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.

National Cheng Kung University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
91	2021	Conference	Radar	Parallel and Distributed Processing	NUDT		

Participation in the 2021 Radar Target Detection Challenge. See entry 91.

National Chiao Tung University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT

Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.

National Taiwan University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
61	2021	Conference	Acoustics	Hydroacoustic Countermeasure Technology Underwater Measurement and Control Technology	DNA NRA		HEU

Participation in the 2021 IEEE/OES China Ocean Acoustics Conference. See entry 61.

62	2024	Conference	Acoustics	Hydroacoustic Tech.			HEU
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Participation in the China International Conference on Ocean Acoustics. See entry 62.							
63	2020	Conference	Acoustics, AI/ML, Sensing	Hydroacoustic Tech.			HEU
Participation in the International Forum of Ocean Information 2020. See entry 63.							
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS- CIOFMP CAS-IS CAS-SINN CETC	HIT
Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.							
128	2021	Conference	Acoustics	Underwater Measurement and Control Technology		CSSC	
Participation in the China International Conference on Ocean Acoustics and Science and Technology Competition on Hydroacoustic and Ocean Technology. See entry 128.							

National Taiwan University of Science and Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT
Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.							
121	Ongoing?	Individual Affiliation	Materials, Semiconductors	Surface Physics and Chemistry		CAEP	
Relationship with researcher affiliated with PRC nuclear research lab. See entry 121.							

National Yang Ming Chiao Tung University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
117	2017	Conference	Semiconductors	Specialized Integrated Circuits	PLACDC PLA General Hospital	CASC CAS-CIOFMP CAS-IS CAS-SINN CETC	HIT
Participation in the 2024 21st Sino-International Forum on Semiconductor Lighting and the International Forum for 3rd Generation Semiconductors. See entry 117.							

Pingtung University of Science and Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
91	2021	Conference	Radar	Parallel and Distributed Processing	NUDT		
Participation in the 2021 Radar Target Detection Challenge. See entry 91.							

Taiwan National Tsing Hua University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
50	2020	Conference	Communications	Electronic Information Control		CETC	

Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.

Turkey

Armelsan Defence Technologies

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
63	2020	Conference	Acoustics, AI/ML, Sensing	Hydroacoustic Technology			HEU

Participation in the International Forum of Ocean Information 2020. See entry 63.

Izmir Institute of Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
79	2024	Conference	Munitions	Materials Tech. in Impact Env.		Norinco	BIT

Participation in the 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.

United Kingdom

British Corrosion Society

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
77	2024	Conference	Maritime Tech, Materials	Marine Corrosion and Protection		CSSC	Beihang HEU HIT

Participation in 2024 22nd International Corrosion Congress. See entry 77.

British Heat Transfer Society

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
69	2021	Conference	Aerodynamics, Aerospace, Propulsion	Hypersonic Ramjet Technology	AFEU NUDT PLASSF	CASC	Beihang HEU HIT NUAA NWPU

Participation in the 2021 2nd International Symposium on Thermal-Fluid Dynamics. See entry 69.

Brunel University of London

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
19	2019	Conference	Aerospace	Aviation Plasma Dynamics	AFEU	AECC	BIT NUAA NWPU

Participation in the 2019 1st International Symposium on Thermal-Fluid Dynamics. See entry 19.							
69	2021	Conference	Aerodynamics, Aerospace, Propulsion	Hypersonic Ramjet Technology	AFEU NUDT PLASSF	CASC	Beihang HEU HIT NUAA NWPU

Participation in the 2021 2nd International Symposium on Thermal-Fluid Dynamics. See entry 69.

Cranfield University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
48	2019	Conference	Aerospace, AI/ML, Unmanned Systems	Electromechanical Engineering and Control	NUDT	CASIC China C2 Society Norinco	BIT NWPU

Participation in 2019 2nd IEEE International Conference on Unmanned Systems. See entry 48.

123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NRA NUDT	CASIC	Beihang BIT NWPU
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Participation in the 2024 International Conference on Autonomous Unmanned Systems. See entry 123.

De Montfort University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
43	2020	Conference	Electromagnetic Tech	Electromagnetic Compatibility		CAEP CETC CSSC	

Participation in the 2020 6th IEEE Global Electromagnetic Compatibility Conference. See entry 43.

Durham University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
13	2024	Conference	AI/ML, Electromagnetic Tech	Antennas and Microwave Technology Electromechanical Engineering and Control Communications Countermeasures Tech.		CETC Norinco	BIT

Participation in the 14th International Conference on Antennas, Propagation and Electromagnetic Theory. See entry 13.

Imperial College London

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
17	2022	Conference	Aerospace, Energy, Propulsion	Aviation Engine High-Altitude Simulation Tech.		AECC CASIC	

Participation in the 2022 Forum of the Global Power & Propulsion Society. See entry 17.

23	2016	Institutional Visits/ Exchange	Munitions	Ballistics			NUST
Visit and exchange between ICL armaments expert and PRC defense research lab. See entry 23.							
26	2024	Conference	Communications	Communications Anti-Jamming Tech.		Huawei ZTE	
Participation in 2024 24th International Conference on Communication Technology. See entry 26.							
69	2021	Conference	Aerodynamics, Aerospace, Propulsion	Hypersonic Ramjet Technology	AFEU NUDT PLASSF	CASC	Beihang HEU HIT NUAA NWPU
Participation in the 2021 2nd International Symposium on Thermal-Fluid Dynamics. See entry 69.							
91	2021	Conference	Radar	Parallel and Distributed Processing	NUDT		
Participation in the 2021 Radar Target Detection Challenge. See entry 91.							
109	2019	Conference	Munitions, Propulsion, Rockets	Space Chemical Power Technology		CAEP CASC China Ordnance Society Norinco	NUST
Participation in the 13th International Autumn Symposium on Propellants, Explosives and Pyrotechnics. See entry 109.							
110	2018- 2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST
Participation in International Conference on Defense Technology. See entry 110.							

Institution of Engineering and Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
60	Ongoing?	Individual Affiliation	Unknown	High Power Microwave Electronic Vacuum Component Tech.		CETC	
Director of PRC military radar research lab is a fellow of IET.							
123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NRA NUDT	CASIC	Beihang BIT NWPU
Participation in the 2024 International Conference on Autonomous Unmanned Systems. See entry 123.							

Kingston University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
125	Ongoing?	Institutional Collab	Unknown	UAV Special Tech.	AFEU		NWPU

Alleged cooperative relationship with PRC military research lab. See entry 125.

Liverpool John Moores University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
31	2024-2025	Conference	Communications	Communications Countermeasures Tech.		CETC	HIT

Participation in the 2024 and 2025 International Conference on Communication Software and Networks. See entry 31.

Loughborough University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
7	2022-2024	Conference	GNC	Aircraft Control and Integration Tech.	NUDT	AVIC CASC CAS-IA CSSC Norinco	Beihang HEU NUST NWPU

Participation in the International Conference on Guidance, Navigation and Control. See entry 7.

61	2021	Conference	Acoustics	Hydroacoustic Countermeasure Technology Underwater Measurement and Control Technology	DNA NRA		HEU
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Participation in the 2021 IEEE/OES China Ocean Acoustics Conference. See entry 61.

110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST
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Participation in the International Conference on Defense Technology. See entry 110.

114	2015-2020	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
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Alleged visits to and from PRC defense research lab. See entry 114.

123	2024	Conference	AI/ML, Communications, Unmanned Systems	UAV Special Tech.	AFEU NUDT NRA	CASIC	Beihang BIT NUST NWPU
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Participation in the 2024 International Conference on Autonomous Unmanned Systems. See entry 123.

Oxford University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
5	Ongoing?	Institutional Collab	Unknown	Aero-Engine Aerodynamics and Thermodynamics			Beihang
Alleged cooperation with PRC military-affiliated academic department. See entry 5.							
9	2017- Ongoing?	Institutional Collab	Aerodynamics	Airfoil and Blading Aerodynamics			NWPU
Alleged establishment of a joint research base with a PRC defense lab. See entry 9.							
69	2021	Conference	Aerodynamics, Aerospace, Propulsion	Hypersonic Ramjet Technology	AFEU NUDT PLASSF	CASC	Beihang HEU HIT NUAA NWPU
Participation in the 2021 2nd International Symposium on Thermal-Fluid Dynamics. See entry 69.							

Qinetiq

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
23	2016	Institutional Visits/ Exchange	Munitions	Ballistics			NUST
Visit and exchange between company armaments expert and PRC defense research lab. See entry 23.							

Queen Mary University London

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
15	2015- Ongoing?	Institutional Visits/ Exchange	Unknown	Antennas and Microwave Tech.		CETC	
Alleged visit and exchange with PRC defense research lab. See entry 15.							
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	
Alleged unspecified relationship with PRC defense research lab. See entry 16.							
118	2024	Institutional Visits/ Exchange	Nuclear Tech	Surface Physics and Chemistry		CAEP	
Student visit and exchange with PRC nuclear research lab.							

Royal Academy of Engineering

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
58	2023	Conference	Manufacturing, Materials	High Energy Beam Processing Tech.		AVIC	
Participation in the 2023 International Conference on Lightweight Materials and Manufacture. See entry 58.							

Royal Aeronautical Society

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
124	2016	Conference	Unmanned Systems	UAV Special Tech.	AFEU		NWPU

Participation in the 2016 China-International UAV System Conference and Exhibition. See entry 124.

Royal Society of Chemistry

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
40	2018	Conference	Materials, Munitions	Detonator Safety and Reliability		CAEP Norinco	BIT NUST NWPU

Participation in the 4th International Symposium on Nanostructured Energetic Materials and Applied Technology. See entry 40.

Royal Society of Edinburgh

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
11	2024	Conference	Measurement Tech, Simulation & Modeling	Antennas and Microwave Tech.		CETC Huawei	

Participation in the 2018 9th Asian Joint Conference on Propulsion and Power. See entry 11.

Sheffield Hallam University

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
19	2019	Conference	Aerospace	Aviation Plasma Dynamics	AFEU	AECC	BIT NUAA NWPU

Participation in the 2019 1st International Symposium on Thermal-Fluid Dynamics. See entry 19.

69	2021	Conference	Aerodynamics, Aerospace, Propulsion	Hypersonic Ramjet Technology	AEU NUDT PLASSF	CASC	Beihang HEU HIT NUAA NWPU
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Participation in the 2021 2nd International Symposium on Thermal-Fluid Dynamics. See entry 69.

Sino-British Joint Laboratory of Advanced Control System Technology

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
116	Ongoing?	Institutional Collab	Aerospace	Space Flight Intelligent Control Technology		CASC	

Affiliated with personnel of a PRC defense research lab.

The Welding Institute

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
59	2016-2018	Conference	Aerospace, Manufacturing	High Energy Beam Processing Tech.		AVIC	

Participation in the 2016 and 2018 International Conference on Power Beam Processing Technologies. See entry 59.

University of Bath

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
61	2021	Conference	Acoustics	Hydroacoustic Countermeasure Technology Underwater Measurement and Control Technology	DNA NRA		HEU

Participation in 2021 IEEE/OES China Ocean Acoustics Conference. See entry 61.

University of Birmingham

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
50	2020	Conference	Communications	Electronic Information Control		CETC	
99	2019	Conference	AI/ML, Radar	Radar Signal Processing			

Participation in the 2020 12th International Conference on Communication Software and Networking. See entry 50.

Participation in the 2019 2nd International Workshop on Signal and Information Intelligent Learning and Processing. See entry 99.

University of Brighton

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
106	2016	Institutional Visits/Exchange	Manufacturing	Remanufacturing Technology	AAAF		

Visit to PRC military research lab, university researcher serving as visiting scholar at this lab, and promises for further cooperation. See entry 106.

University of Bristol

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
18	2023	Conference	Materials	Aviation Plasma Dynamics	AFEU	AVIC CASC CSSC Norinco	HIT
35	2023	Institutional Visits/Exchange	Aerospace, Materials	Composite Material Tech. in Special Env.			HIT

Participation in the 2023 International Conference on Surface Science Technology and Application. See entry 18.

Alleged visit and lecture at PRC military-affiliated research institution. See entry 35.

37	2015-Ongoing?	Institutional Collab	Materials	Composite Material Tech. in Special Env.			HIT
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Alleged exchange and cooperation with PRC defense research lab. See entry 37.

52	2015-Ongoing	Institutional Visits/Exchange	Unknown	Equipment Integrated Support Technology.	NUDT		
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Alleged study by personnel affiliated with a PRC military research lab. See entry 52.

University of Cambridge

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NEU NUDT	CASIC	Beihang BIT NWPU

Participation in the 2024 International Conference on Autonomous Unmanned Systems. See entry 123.

University of Essex

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
110	2018-2024	Conference	Materials, Munitions, Propulsion, Rockets, Unmanned Systems	Space Chemical Power Technology Ballistics Materials Tech. in Impact Environments	AEU NEU NUDT	CAEP CASC Norinco	BIT NUST

Participation in International Conference on Defense Technology. See entry 110.

University of Glasgow

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
24	2025	Conference	AI/ML, Communications	Communications Anti-Jamming Tech.			NWPU

Participation in the 2025 10th International Conference on Computer and Communications Systems. See entry 24.

26	2024	Conference	Communications	Communications Anti-Jamming Tech		Huawei ZTE	
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Participation in the 2024 24th International Conference on Communication Technology. See entry 26.

27	Ongoing?	Institutional Collab	Communications	Communications Anti-Jamming Tech			
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Alleged grad student joint training agreement with PRC defense research lab. See entry 27.

57	Ongoing?	Institutional Collab	Helicopter Tech	Helicopter Rotor Dynamics			NUAA
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Alleged establishment of a joint helicopter research center with PRC defense research lab. See entry 57.

University of Kent

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
15	2015-Ongoing?	Institutional Visits/Exchange	Unknown	Antennas and Microwave Tech.		CETC	

Alleged visit and exchange with PRC defense research lab. See entry 15.							
16	Ongoing?	Institutional Collab	Unknown	Antennas and Microwave Tech.		CETC	

Alleged unspecified relationship with PRC defense research lab. See entry 16.

34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST
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Participation in 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

University of Lancaster

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NEU NUDT	CASIC	Beihang BIT NWPU

Participation in the 2024 International Conference on Autonomous Unmanned Systems. See entry 123.

University of Leeds

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
69	2021	Conference	Aerodynamics, Aerospace, Propulsion	Hypersonic Ramjet Technology.	AFEU NUDT PLASSF	CASC	Beihang HEU HIT NUAA NWPU

Participation in the 2021 2nd International Symposium on Thermal-Fluid Dynamics. See entry 69.

University of Leicester

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
18	2023	Conference	Materials	Aviation Plasma Dynamics	AFEU	AVIC CASC CSSC Norinco	HIT

Participation in the 2023 International Conference on Surface Science Technology and Application. See entry 18.

University of Liverpool

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
13	2024	Conference	AI/ML, Electromagnetic Tech	Antennas and Microwave Tech. Electromechanical Engineering and Control Communications Countermeasures Tech.		CETC Norinco	BIT

Participation in the 2024 14th International Conference on Antennas, Propagation and Electromagnetic Theory. See entry 13.

University of Manchester

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
2	2014- Ongoing?	Research Collab	Aerospace, Materials	Advanced Composite Materials		AECC	
Alleged collaboration with PRC defense research lab on new materials for PRC military aircraft.							
39	2023	Conference	AI/ML, Manufacturing, Maritime Tech, Materials	Computational Fluid Dynamics	CARDC		Beihang HIT
Participation in the 2023 Beihang International Forum for Young Scientists. See entry 39.							
48	2019	Conference	Aerospace, AI/ML, Unmanned Systems	Electromechanical Engineering and Control	NUDT	CASIC China C2 Society Norinco	BIT NWPU
Participation in the 2019 2nd IEEE International Conference on Unmanned Systems. See entry 48.							
59	2016- 2018	Conference	Aerospace, Manufacturing	High Energy Beam Processing Tech.		AVIC	
Participation in the 2016 and 2018 International Conference on Power Beam Processing Technologies. See entry 59.							
123	2024	Conference	Unmanned Systems	UAV Special Tech.	AFEU NEU NUDT	CASIC	Beihang BIT NWPU

Participation in the 2024 International Conference on Autonomous Unmanned Systems. See entry 123.

University of Nottingham

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
4	2024	Conference	Hypersonic Tech, Propulsion, Rockets	Aero-Engine Aerodynamics and Thermodynamics	AFEU AMS NUDT SEU Unit 32178	AECC AVIC CAEP	Beihang BIT HEU NWPU

Participation in the 9th National Young Scholar Meeting on Combustion Research. See entry 4.

34	2018	Conference	Communications, Radar	Communications Countermeasures Tech. Electronic Information Control Radio Wave Env. Characteristics and Modeling Tech.	NUDT	CETC	Beihang BIT HIT NUST
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Participation in 12th International Symposium on Antennas, Propagation and EM Theory. See entry 34.

57	Ongoing	Institutional Collab	Helicopter Tech	Helicopter Rotor Dynamics			NUAA
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Alleged establishment of a joint helicopter research center with PRC defense research lab. See entry 57.

69	2021	Conference	Aerodynamics, Aerospace, Propulsion	Hypersonic Ramjet Technology	AFEU NUDT PLASS F	CASC	Beihang HEU HIT NUAA NWPU
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Participation in the 2021 2nd International Symposium on Thermal-Fluid Dynamics. See entry 69.

University of Sheffield

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
39	2023	Conference	AI/ML, Manufacturing, Maritime Tech, Materials	Computational Fluid Dynamics	CARDC		Beihang HIT

Participation in the 2023 Beihang International Forum for Young Scientists. See entry 39.

University of Southampton

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
19	2019	Conference	Aerospace	Aviation Plasma Dynamics	AFEU	AECC	BIT NUAA NWPU

Participation in the 2019 1st International Symposium on Thermal-Fluid Dynamics. See entry 19.

52	2015- Ongoing?	Institutional Visits/ Exchange	Unknown	Equipment Integrated Support Technology	NUDT		
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Alleged study by personnel affiliated with a PRC military research lab. See entry 52.

63	2020	Conference	Acoustics, AI/ML, Sensing	Hydroacoustic Technology			HEU
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Participation in the International Forum of Ocean Information 2020. See Entry 63.

64	2019	Research Collab	Acoustics	Hydroacoustic Technology			HEU
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Research collaboration on hydroacoustics with PRC defense research lab. See entry 64.

University of Strathclyde

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
52	2015-Ongoing?	Institutional Visits/Exchange	Unknown	Equipment Integrated Support Technology	NUDT		
Alleged study by personnel affiliated with a PRC military research lab. See entry 52.							
68	2024	Conference	Maritime Tech	Hydrodynamics		CSSC	
Participation in the 2024 7th Symposium on Computational Marine Hydrodynamics. See entry 68.							
114	2015-2021	Institutional Visits/Exchange	Unknown	Space Flight Dynamics Tech.	BACC		NWPU
Alleged visits to and from PRC defense research lab. See entry 114.							

University of Surrey

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
18	2023	Conference	Materials	Aviation Plasma Dynamics	AFEU	AVIC CASC CSSC Norinco	HIT
Participation in the 2023 International Conference on Surface Science Technology and Application. See entry 18.							

University of Windsor

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
18	2023	Conference	Materials	Aviation Plasma Dynamics	AFEU	AVIC CASC CSSC Norinco	HIT
Participation in the 2023 International Conference on Surface Science Technology and Application. See entry 18.							

University of York

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
63	2020	Conference	Acoustics, AI/ML, Sensing	Hydroacoustic Technology			HEU
Participation in the International Forum of Ocean Information 2020. See entry 63.							

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
42	2020	Conference	Communications, Electromagnetic Tech, Materials	Electromagnetic Compatibility		CSSC	NWPU
Participation in 2020 IEEE International Microwave Symposium Series - Advanced Materials and Processes for RF and Terahertz Applications. See entry 42.							
79	2024	Conference	Munitions	Materials Tech. in Impact Environments		Norinco	BIT
Participation in 2024 2nd International Symposium on Shock Wave Phenomena and Applications. See entry 79.							

93	Ongoing?	Institutional Collab	Unknown	Parallel and Distributed Processing	NUST		
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Alleged cooperative relationship with PRC military computing lab. See entry 93.

UAE

Technology Innovation Institute

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
45	2019	Institutional Collab	Electromagnetic Tech	Electromagnetic Environment Effects Electromagnetic Environment Effects and Electro-Optical Engineering	AEU		

Participation in the First Plenary Session of the International Academic Committee of the National International Joint Research Center for Transient Electromagnetic Environment and Applications, which was vice chaired by a PRC military research lab. See entry 45.

Ukraine

Institute of Semiconductor Physics

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
73	2024	Conference	Electromagnetic Tech	Infrared Sensing		CETC Norinco	

Participation in the 2024 3rd International Conference on Earth and Space: From Infrared to Terahertz. See entry 73.

National Academy of Sciences of Ukraine Paton Institute of Electric Welding

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
59	2016-2018	Conference	Aerospace, Manufacturing	High Energy Beam Processing Tech.		AVIC	

Participation in the 2016 and 2018 International Conference on Power Beam Processing Technologies. See entry 59.

Unknown

#	Year	Type	Research Topics	DSTKL of...	PLA	IND/RI	7S
37	2015-Ongoing?	Institutional Collab	Materials	Composite Material Tech. in Special Env.			HIT

Alleged unspecified cooperation with PRC defense research lab.

Endnotes

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- ⁹ "Department of Thermal Engineering" [热能工程系], *Beihang University*, Accessed 2021, <https://sepe.buaa.edu.cn/xygk/xssz/rngcx.htm>.
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