

Module 1. Research Placement

Part I. General Information

- **Date:** 19 May 2019 - 18 August 2019 (*You could choose to stay for four weeks or up to twelve weeks.*)
- **Components:** This module combines **research placement (lab internship)** with courses on **Chinese language** and **Chinese Culture**, and **field trip**. Campus activities will also be held to help merge into local community.



- **Program enrolment:** 100 international participants
- **Target participants:** Undergraduates or postgraduates majoring in engineering, pharmacy, management, liberal arts and law are welcomed. Please specify your preferred tutor and your research interest or internship plan in the personal statement.
- **Academic credit:** Upon completion of this program, the participants will receive a transcript, a certificate of completion of study, and up to **7** units of credit from Tianjin University (for a one-month program).
- **About the disciplines of Tianjin University**

Through unremitting efforts, TJU has developed a disciplinary layout that integrates engineering harmoniously with sciences, management, education, economics, medicine, law, and liberal arts. Nine disciplines rank the world's top 1% of ESI, and three disciplines, namely Engineering, Materials Science and Chemistry, rank the world's top 1‰ of ESI. Tianjin University has been focusing on the needs of national strategic development and the frontier of science and technology. Currently, it has 4 state-level international science and technological cooperation base, 37 municipal level joint research base and 27 university level joint research base. Tianjin University has also forged strategic partnership with more than 200 universities, research institutes and companies in 37 countries. Besides, many programs in TJU have passed the international accreditation, such as the AMBA and IchemE. Particularly, Tianjin International Engineering Institute (TIEI), which was founded collaboratively with Nice Sophia Antipolis University in May 2014, was accredited by CTI for 6 years (the highest level) in July 2017

Program Itinerary (take a one-month research placement for example)

								19 May Sun.
								Orientation
Week 1		20 May Mon.	21 May Tue.	22 May Wed.	23 May Thu.	24 May Fri.	25 May Sat.	26 May Sun.
	8:30-10:05	Chinese	Chinese	Chinese	Chinese	Chinese	Field Trip 1 (optional) Tour to Tianjin Downtown and Binhai New Area	
	10:25-12:00	Chinese	China Studies	Chinese	China Studies	Chinese		
	14:00-17:00	Research placement	Research placement	Research placement	Research placement	Research placement		
	evening		Campus Activity		Campus Activity			
Week 2		27 May Mon.	28 May Tue.	29 May Wed.	30 May Thu.	31 May Fri.	1 June Sat.	2 June Sun.
	8:30-10:05	Chinese	Chinese	Chinese	Chinese	Chinese	Field Trip 2 (optional) Tour to Beijing	
	10:25-12:00	Chinese	Chinese	China Studies	China Studies	Chinese		
	14:00-17:00	Research placement	Research placement	Research placement	Research placement	Research placement		
	evening		Campus Activity		Campus Activity			
Week 3		3 June Mon.	4 June Tue.	5 June Wed.	6 June Thu.	7 June Fri.	8 June Sat.	9 June Sun.
	8:30-10:05	Chinese	Chinese	Chinese	Chinese	Chinese	Free time	
	10:25-12:00	Chinese	Chinese	China Studies	China Studies	Chinese		
	14:00-17:00	Research placement	Research placement	Research placement	Research placement	Research placement		
	evening		Campus Activity		Campus Activity			
Week 4		10 June Mon.	11 June Tue.	12 June Wed.	13 June Thu.	14 June Fri.	15 June Sat.	
	8:30-10:05	Chinese	Chinese	Chinese	Chinese	Chinese	Departure	
	10:25-12:00	Chinese	Chinese	China Studies	China Studies	Chinese		
	14:00-17:00	Research placement	Research placement	Research placement	Research Placement	Final Report & Closing		
	evening		Campus Activity		Campus Activity			

Note:

- ✓ All the participants who successfully complete the program will obtain credits of Tianjin University as below: Research Placement (2 credits) + Chinese Language (4 credits) + China studies (1 credit) =7 credits in total

- **Program Fee**

Items	Amount	
Registration Fee	100 USD	Non-refundable
Tuition Fee	800 USD	
Administration Fee	200 USD/ Person	
Total	1100 USD/ Person	

Note:

- ✓ The program fee covers tuition fee for Chinese language and culture courses, research placement supervised by TJU professors, ID Card of Tianjin University, visa support, campus activities, program administration and services.
- ✓ The tour to Tianjin Downtown & Binhai New Area and the tour to Beijing are optional for participants. If interested, participants could consult with program coordinator upon arrival.
- ✓ **Lodging in Tianjin is not included** here. *(Please refer to “Brochure for 2019 Tianjin University International Summer School” P6 Lodging)*

Part II. About Courses & Activities

- **Course on Chinese Language**

This course offers three levels of training for beginning mandarin, intermediate mandarin and advanced mandarin. All participants need to take a placement test before the course begins. Classes are taught by experienced TCSL (teaching Chinese as second language) teachers. All the classes are small, so that students have more opportunities to practice.

- **Course on Chinese Culture**

This course offers you a unique opportunity to immerse into one of the world's oldest cultures. The course focuses on specific aspects of traditional Chinese culture, such as Chinese martial arts, Tai Chi, Chinese calligraphy, Chinese painting, engraving, Chinese food cooking, etc. Participants could have a lot of practice and complete their own works.

- **Field Trip & Campus Activities**

To supplement learning in class, the program will also arrange various extra-curriculum activities, including tours in Tianjin Downtown and Binhai New Area, and in Beijing, capital of China. The field trip enables participants to access leading companies and cultural attractions, as well as the opportunity of integrating into local community. Meanwhile, all participants are provided the opportunities to the colorful events on campus, such as weekend concert, Night of Chinese Culture, Sports Game and so on, to experience the vitality of well-known “Garden Campus with lakes” of TJU.

Part III. List of Tutors who can Host International Students for Lab Internship

Name	School	Research focus	Personal Homepage	Telephone & Email	Capacity
Robert Borris	Pharmaceutical Science and Technology	Natural Products Chemistry	http://health.tju.edu.cn/oneschool/Front/Biography/view/slug/394/staffType/Faculty	18302242039 rborris@tju.edu.cn	1-2 (available ONLY in May and June)
Yunfei Du	Pharmaceutical Science and Technology	Medicinal Chemistry/Organic Synthesis	http://health.tju.edu.cn/oneschool/Front/Biography/view/slug/8/staffType/Faculty	duyunfeier@tju.edu.cn	1
Jianhui Huang	HSP/SPST	Medicinal Chemistry/Molecular Design	huang.tju.edu.cn	jhuang@tju.edu.cn	2
Jiansheng Dai	Mechanical Engineering	Mechanisms Design and Theory	http://tdjxxy.tju.edu.cn/teachershow/jsxl_szdwse/1458.html	0086-22-27406316 jian.dai@kcl.ac.uk	2
Rongjie Kang	Mechanical Engineering	compliant mechanisms, mechatronic systems and control theory	http://tdjxxy.tju.edu.cn/teachershow/jsxl_szdwse/1852.html	0086-15510972041 rongjie.kang@gmail.com	2
Zhibin Song	Mechanical Engineering	Mechanisms Design and Theory; Rehabilitation Robotics	http://tdjxxy.tju.edu.cn/teachershow/jsxl_szdwse/1853.html	0086-15320038358 songzhibin@tju.edu.cn	2
Zhiyong Yang	Mechanical Engineering	Mechanical design manufacturing and automation	http://tdjxxy.tju.edu.cn/teachershow/jsxl_szdwse/1496.html	0086-22-27409921 meyang@tju.edu.cn	5
Shan Jiang	Mechanical Engineering	Mechanical design and theory	http://tdjxxy.tju.edu.cn/teachershow/jsxl_szdwse/1509.html	shanjiang@tju.edu.cn	5

Yan Chen	Mechanical Engineering	Motion Structures, Reconfigurable Mechanism, Deployable Structures, Rigid Origami	http://motionstructures.tju.edu.cn/people/chenyan.html	022-85356291 yan_chen@tju.edu.cn	2
Jiayao Ma	Mechanical Engineering	Origami structures, Deployable structures, Thin-walled energy absorption devices, Minimally	http://motionstructures.tju.edu.cn/people/majiyao.html	022-85356291 jiayao.ma@tju.edu.cn	2
Yan Wang	Precision Instrument and Optoelectronics Engineering	Analytical techniques & instruments	http://jyxy.tju.edu.cn/cn/szdw/20110118/205.shtml	wangyan@tju.edu.cn	2
Hongxia Zhang	Precision Instrument and Optoelectronics Engineering	Photoelectric detection and fiber optic sensing	http://jyxy.tju.edu.cn/Precision/Fibresensing/team_hxzhang.html	0086-22-27403147 hxzhang@tju.edu.cn	2
Guizhong Zhang	Precision Instrument and Optoelectronics Engineering	Optoelectronics; Atomic, molecular and optical Physics	http://jyxy.tju.edu.cn/cn/szdw/20110119/211.shtml http://laser.tju.edu.cn/	0086-22-27402018 johngzhang@tju.edu.cn	1-2
Daihua Zhang	Precision Instrument and Optoelectronics Engineering	Nano Electro-Mechanical Systems	/	0086-18222240316 dhzhang@tju.edu.cn	2
Dagong Jia	Precision Instrument and Optoelectronics Engineering	Optical interconnection components and optical fiber sensor technology	http://jyxy.tju.edu.cn/cn/szdw/20110223/286.shtml	0086-22-27403147 dagongjia@tju.edu.cn	1-2

Hu Gong	Precision Instrument and Optoelectronics Engineering	CAD/CAM, Ultrasonic machining, Ultraprecision machining	http://mnmt2005.tju.edu.cn/index.php?c=msg&id=264&	Gonghu2012@gmail.com	1-2
Zhongjun Qiu	Precision Instrument and Optoelectronics Engineering	Grinding, Micro injection molding	/	qiuzhongjun@gmail.com	1-2
XuexinDuan	Precision Instrument and Optoelectronics Engineering	Biosensor and Bioelectronics	https://www.researchgate.net/profile/Xuexin_Duan	0086-22-27401002 xduan@tju.edu.cn	2-3
Huijuan Zhao	Precision Instrument and Optoelectronics Engineering	Biomedical Photonics	/	huijuanzhao@tju.edu.cn	1-2
Zhongxing Zhou	Precision Instrument and Optoelectronics Engineering	x-ray medical imaging techniques	http://jyxy.tju.edu.cn/cn/szdw/20110225/382.shtml	0086-13920446516 zhouzhongxing@tju.edu.cn	1
Jing Zou	Precision Instrument and Optoelectronics Engineering	X-ray imaging & image processing	http://jyxy.tju.edu.cn/cn/szdw/20130301/597.shtml	18892233806 jingzoutd@tju.edu.cn	1
Xiaodong Zhang	Precision Instrument and Optoelectronics Engineering	Ultraprecision machining, Freeform optics, Precision Metrology, Computer Vision	http://jyxy.tju.edu.cn/cn/szdw/20110224/320.shtml	zhangxd@tju.edu.cn	1-2
Qieni Lu	Precision Instrument and Optoelectronics Engineering	Optical switching and particle field measurement	http://jyxy.tju.edu.cn	0086-22-27401903 qienil@tju.edu.cn	2

Zhiqiang Zuo	Electrical and Information Engineering	Robust control, nonlinear control, consensus of multi-agent systems, UAV, Self-driving	http://faculty.tju.edu.cn/zhiqiangzuo/zh_CN/index.htm	0086-22-27890729 zqzuo@tju.edu.cn	3
Shouxiang Wang	Electrical and Information Engineering	Smart Distribution System, Smart Electricity Utilization, Microgrid, Uncertainty Analysis	http://www.tju.edu.cn/seea/szdw/dqgc/201610/t20161031_287290.htm	0086-15902281366; sxwang@tju.edu.cn	2
Feng Dong Chao Tan Yanbin Xu	Electrical and Information Engineering	Process Tomography, bio imaging, flow measurement and imaging, image reconstruction and process, instrumentation and measurement, multisensor data fusion	http://faculty.tju.edu.cn/fengdong/zh_CN/index.htm http://faculty.tju.edu.cn/tanchao/zh_CN/index.htm http://www.tju.edu.cn/seea/szdw/zd hx/201610/t20161012_286407.htm	0086-22-27892055 fdong@tju.edu.cn tanchao@tju.edu.cn xuyanbin@tju.edu.cn	1-2
Chaofang Hu	Electrical and Information Engineering	Cooperative optimization and control of autonomous system, Application in UAVs, hypersonic vehicle, and autonomous vehicles. Predictive control, Multi-objective optimization	http://faculty.tju.edu.cn/huchaofang/zh_CN/index.htm	0086-13820795182 cfhu@tju.edu.cn	1-2
Shirong Wang	Chemical Engineering	Design, synthesis, characteristics and application of organic functional materials	/	0086-13602197529 wangshirong@tju.edu.cn	1-2

Yingjin Yuan	Chemical Engineering	Synthetic biology	http://chemeng.tju.edu.cn/en/people?type=detail&id=274	0086-22-27402503 yjyuan@tju.edu.cn	2-3
Bingzhi Li	Chemical Engineering	Bioconversion of lignocelluloses	http://chemeng.tju.edu.cn/en/people?type=detail&id=196	0086-13821781519 bzli@tju.edu.cn	1
Zhi Wang	Chemical Engineering	Membranes and Membrane Processes; Gas Separation; Seawater Desalination	http://chemeng.tju.edu.cn/en/people?type=detail&id=214	0086-22-27404533 13602126009 wangzhi@tju.edu.cn	2
Junbo Gong	Chemical Engineering	Pharmaceutical Crystallization, Solid-State Chemistry, Particle Technology	http://www.nercict.com/Member/nfrn67f18e88biw8ooms1dufcomxxte8dosx1tecxoyxxduwmeqxxokbzefm1kkf1oacoe wy.htm	0086-13702011123 Junbo_gong@tju.edu.cn	2
Jingtao Wang	Chemical Engineering	Microfluidics	/	0086-15022603629, wjingtao928@tju.edu.cn	1
Taotao Fu	Chemical Engineering	Microfluidics, interfacial phenomenon, multiphase flow and complex fluid	/	0086-15222695879 tffu@tju.edu.cn	1-2
Xu Chen	Chemical Engineering	Mechanical properties of materials	http://chemeng.tju.edu.cn/en/people?type=detail&id=207	0086-22-27408399 xchen@tju.edu.cn	1-2

Yuanyuan Shao	Chemical Engineering	Fluidization and Particle Research	https://cn.linkedin.com/in/yshao	yshao@tju.edu.cn	2
Mingyan Liu	Chemical Engineering	1-Chemical reaction engineering 2-Heat transfer enhancement	http://chemeng.tju.edu.cn/en/people?type=detail&id=230	0086-86-22-27404614 myliu@tju.edu.cn	2
Jianjun Qiao	Chemical Engineering	Lactis fermentation, Acid tolerance mechanism, Synthetic biology	http://chemeng.tju.edu.cn/cn/szdw?type=detail&id=107	0086-13920082231 jianjunq@tju.edu.cn	1-2
Jinsheng Sun	Chemical Engineering	1) process simulation and optimization using energy & exergy analyses; 2)synthesis of Nano-particles and	http://211.81.48.147/cn/szdw?type=detail&subtype=8&id=217	0086-13323377500 jssun2006@vip.163.com	2
He Huang	Chemical Engineering	Medical bioengineering	/	huang@tju.edu.cn	1-2
Hongxun Hao	Chemical Engineering	Industrial crystallization	http://chemeng.tju.edu.cn/cn/szdw?type=detail&id=195	0086-18622767283 hongxunhao@tju.edu.cn	2-3
Jixiao Wang	Chemical Engineering	Functional polymers, especially on conductive polymers Coating Science & technology	http://chemeng.tju.edu.cn/cn/szdw?type=detail&id=226	0086-15522613798 jxwang@tju.edu.cn	2

Yuqing Zhang	Chemical Engineering	1. Novel materials with purified and recovered function and engineering of water purification 2. Membrane separation and	http://chemeng.tju.edu.cn/cn/szdw?type=detail&id=205	0086-13602077041 zhangyuqing@tju.edu.cn	1-2
Feng Xin	Chemical Engineering	Reaction Engineering	211.81.48.147/en/people?type=detail&id=213	0086-22-27409533 xinf@tju.edu.cn	1
Shaokun Tang	Chemical Engineering	Functional nanomaterials, Green energy materials, Green solvent technology	http://chemeng.tju.edu.cn/cn/szdw?type=detail&subtype=8&id=161	shktang@tju.edu.cn	1-3
Wei Li	Chemical Engineering	Antisolvent nanofiltration membranes; Cathode materials for lithium ion batteries	http://cpi.tju.edu.cn	liweili@tju.edu.cn	2-3
Shengping Wang	Chemical Engineering	Heterogeneous catalysis; Utilization of Synthesis; CO2 capture and utilization	/	+86-22-87401818;	2-4
Ping Wu	Science	(1) Fabrications and studies on oxide semiconductor nano-powders and thin films (2) Investigations on interfacial reaction, tin whisker growth, and electromigration of lead-free Sn-based solder	http://www.tju.edu.cn/science/English/Faculty/Physics/Professor_2/201201/t20120110_127463.htm	13622036171 pingwu@tju.edu.cn	1 -2

Bingsi Liu	Science	Complex utilization of natural gas and development of catalysts; Desulfurization of hot coal gas or fuels, Surface Chemistry	www.tjuchemistry.org/user/libs.htm http://www.tju.edu.cn/science/szdw/hxx/201109/t20110908_113611.htm	13072045829 bingsiliu@tju.edu.cn	2
Prof. Wenping Hu's research group	Science	Molecular Optoelectronic Sciences	http://tjmos.tju.edu.cn/huwenping/ky/kyly.htm	chengss@tju.edu.cn	20
Shengbin Lei	Science	Physical Chemistry	http://www.tju.edu.cn/science/szdw/hxx/201510/t20151026_267335.htm	8622-83613183 shengbin.lei@tju.edu.cn	1-2
Rongjin Li	Science	Physical Chemistry	http://www.tju.edu.cn/science/English/Faculty/Chemistry/Professor_3/201507/t20150707_258320.htm	8622-83613183 lirj@tju.edu.cn	1-2
Xiaotao Zhang	Science	Physical Chemistry	http://www.tju.edu.cn/science/szdw/hxx/201606/t20160612_281119.htm	8622-83613183 zhangxt@tju.edu.cn	1-2
Shanshan Cheng	Science	Physical Chemistry	http://www.tju.edu.cn/science/szdw/hxx/201609/t20160929_286031.htm	8622-83613183 chengss@tju.edu.cn	1-2
Xiaochen Ren	Science	Physical Chemistry	http://www.tju.edu.cn/science/szdw/hxx/201708/t20170824_297785.htm	8622-83613183 renxiaochen@tju.edu.cn	1-2

Yi Li	Science	Inorganic Chemistry	http://www.tju.edu.cn/science/English/Faculty/Chemistry/AP3/201204/t20120428_154893.htm	8622-83613183 liyi@tju.edu.cn	1-2
Xi Yu	Science	Physical Chemistry	http://www.tju.edu.cn/science/szdw/hxx/201703/t20170320_292131.htm	8622-83613183 xi.yu@tju.edu.cn	1-2
Yanfeng Dang	Science	Physical Organic Chemistry	http://www.tju.edu.cn/science/szdw/hxx/201608/t20160824_284687.htm	8622-83613183 yanfeng.dang@tju.edu.cn	1-2
Tianyang Wang	Science	Physical Chemistry	http://tjmos.tju.edu.cn/cms/item/view?table=meeting&id=115	8622-83613183 tianyangwang@tju.edu.cn	1-2
Guangwei Wang	Science	Organic chemistry, Transition metal-catalyzed organic reactions	http://faculty.tju.edu.cn/wanggw	0086-15022055628 wanggw@tju.edu.cn	1-2
Jun-An Ma	Science	Organic synthesis	http://172.19.244.224:8080/system/casloginaction.jsp?action=loginteacher	022-27407286 majun_an68@tju.edu.cn	3
Shi Hu	Science	Nanomaterials, electrocatalysis & photocatalysis	http://faculty.tju.edu.cn/166212/zh_CN/index.htm	18600604116 rychushi@qq.com	2
Shouting Zhang	Science	Analytical Chemistry	http://tjmos.tju.edu.cn/luxiaoquan/ktzss1/cy/xs.htm	8622-83613183 zhangsht@tju.edu.cn	1-2
Xianhua Liu	School of Environmental Science & Engineering	Biomass fuel cell and biosensors	http://faculty.tju.edu.cn/liuxianhua/zh_CN/index.htm	13612090651 lxh@tju.edu.cn	2

Lu Yiren	School of Environmental Science and Engineering	Environment Functional Materials	http://www.tju.edu.cn/see/szdw/fjs/201304/t20130408_171880.htm	13802057027	2 foreign students
Junjie Liu	School of Environmental Science& Engineering	Cabin Environment Building Environment Indoor Air Quality Air Filter Performance Evaluation Gas Phase Air Cleaning Media /Device Performance Evaluation	http://faculty.tju.edu.cn/966247/zh_CN/index.htm	13902119295 jjliu@tju.edu.cn	3-4
Can Wang	School of Environmental Science& Engineering	Wastewater/ waste gas treatment	https://orcid.org/0000-0003-3575-5975	wangcan@tju.edu.cn	2
Xueyan Liu	Institute of Surface-Earth System Science, Tianjin University	Nitrogen cycle and stable isotopes	http://earth.tju.edu.cn/researcher-details.aspx?fatherId=1096&scLange=cn&childId=56&userid=13	+0086-22-83613932 liuxueyan@tju.edu.cn	1-2
Silu Cheng	School of Micro-electronics	Power Management, IC Simulation with EDA Tools	Under Construction	0086-13920706086	2-4
Jian Xu	School of Marine Science and Technology	Submarine Detection	https://www.researchgate.net/profile/Xu_Jian22	Jian.xu@tju.edu.cn	1
Xing Wang	School of Marine Science and Technology	Remote Sensing Image Processing	http://faculty.tju.edu.cn/wangxing/zh_CN/index.htm	18222503057 xing.wang@tju.edu.cn	5
Dianjun Zhang	School of Marine Science and Technology	Marine remote sensing; Surface energy estimation	http://faculty.tju.edu.cn/176117/zh_CN/index.htm	13426059835&zhangdianjun123@163.com	2

Lei Ma	The Tianjin International Center for Nanoparticles and Nanosystems	graphene electronics, cluster physics	http://ticnn.tju.edu.cn/	maleixinjiang@tju.edu.cn	4
Jinhai Huang	School of Life Sciences	Virus immunity; Vaccine expression system design in Yeast	http://faculty.tju.edu.cn/040293/zh_CN/index.htm	jin Hai@tju.edu.cn	3
Ying Yang	School of Life Sciences	Cancer Immunology	http://faculty.tju.edu.cn/136080/zh_CN/index/3185/list/index.htm	18202520725 yangy@tju.edu.cn	1
Jie XU	School of Civil Engineering	Steel, concrete and monitoring	/	15630775777/jxu@tju.edu.cn	5-10
Xiaowang Zhang	College of Intelligence and Computing	Knowledge Graph	http://cs.tju.edu.cn/faculty/zhangxiaowang/	+86-13920302709 xiaowangzhang@tju.edu.cn	3
Yuexian Hou	College of Intelligence and Computing	machine learning, information retrieval and natural language processing	http://cs.tju.edu.cn/faculty/hyx/	+86-15522268197 yxhou@tju.edu.cn	4
Zhibin Niu	College of Intelligence and Computing	Big data analytics / data mining	http://scs.tju.edu.cn/~zbniu/	+86-18721870503 zni@tju.edu.cn	2
Deyi Xiong	College of Intelligence and Computing	Natural Language Processing (dialogue, machine translation, QA, etc.)	https://dblp.uni-trier.de/pers/hd/x/Xiong:Deyi	dexiong@tju.edu.cn	2
Jijun Tang	College of Intelligence and Computing	Computational Biology, Deep Learning, Bioinformatics	www.cse.sc.edu/~jtang	tangjijun@tju.edu.cn	2

Ce Yu	College of Intelligence and Computing	High Performance Computing, Big Data	http://cs.tju.edu.cn/faculty/yuce	yuce@tju.edu.cn	2
Wenjun Wang	College of Intelligence and Computing	(1) Intelligent Risk Early Warning and Intelligence Analysis Theory (2) Data and Atlas-Driven Social Control Theory (3) Large Data Processing and Cloud Computing Platform (4) Smart Safety , Smart Planet , Smart City	http://cs.tju.edu.cn/faculty/wjwang/	E-Mail 1: wenjunwang@263.net E-Mail 2: wwj@pku.org.cn	3-5

To be supplemented