



上海交通大學
SHANGHAI JIAO TONG UNIVERSITY

SJTU International Summer Research Internship Program

2016. 06–2016. 08





The SJTU International Summer Research Internship Program seeks to promote international research collaboration and to enhance the academic environment at Shanghai Jiao Tong University. It offers top undergraduate students from around the world the opportunity to work at world class research laboratories under prominent research professors. Students who participate in ISRI will gain valuable research experience, preparation for graduate studies, and the chance to experience life in Shanghai. The inaugural ISRI Program will last for 6-10 weeks from June to August 2016.

Why Shanghai Jiao Tong University?

- A prestigious research university with Ranked in the top 3 in China
- Ranked first in terms of the project number and the amount of money issued by National Natural Science Foundation of China
- Located in a diverse, energetic and international city

What participants will receive?

- Knowledge of top research projects in China
- The opportunity to work with top Chinese professors, fellows and students
- A good basis for career in academic research
- Possible opportunity to co-author a scientific paper
- Access to campus facilities, including library, gymnasium and indoor pool
- A rewarding and unforgettable experience abroad

Eligibility Requirements

All applicants must:

- Students from Hongkong, Taiwan, Macao and abroad must be enrolled as undergraduate students prior to applying for this program
- Be in their second or third year of undergraduate study
- Hold at least a 2.5 GPA on a 4.0 scale
- Students of non-English speaking countries must provide English language proficiency certificate, IELTS no less than 6.0, and TOEFL no less than 90 points. If you are in the college for English teaching programs, please provide relevant certificates
- Have at least one prior research experience
- Additional requirements vary by laboratory

Application Procedures

- Check the list of laboratories and contact your preferred laboratory to match your research interest and discuss the research internship program before applying for the program
- Prepare the application documents, including official transcript in English, English test report, Curriculum Vitae, Motivation letter, and recommendation letter.
- Submit your online application through isc.sjtu.edu.cn

Timeline

December – January

- Applicants check the available laboratories and start preparing the application

January – April

- Applicants file online applications and submit relevant documents

April – May

- SJTU committee announces the selection results and sends out interview notice to selected applicants

May - June

- SJTU sends admission notice and visa papers to the selected applicants

June – August

- Students arrive at SJTU campus and the program begins.

Online Application Deadline

Apr. 30, 2016

Program Expenses

Description	Estimated cost	Cost for participants
Program fee for at least 6 weeks (Tuition, application fee, administrative fee, visa papers, etc.)	8200RMB	Waived for all participants
On-campus accommodation and meal plans	900RMB/week	Scholarship funds available for 50% of participants
International Airfare	7000RMB	Varies by laboratory

Scholarship Opportunities

- Tuition fee waived for all participants
- University council will consider all applicants for the opportunity to earn an allowance for accommodation and meal plans. In the end, 50% of participants will receive scholarship for accommodation and meal plans.
- Other funds are available from some laboratories. Please contact each lab for further information.

Accommodation

SJTU will reserve on campus accommodation for the selected applicants, we will release the online application address for accommodation soon after the admission.

Visa

SJTU will provide the application form (JW 202 form). The applicant should bring the visa paper, Admission Notice as well as a valid passport to the Chinese embassy or consulate to apply for a short term student visa (usually the visa type “X 2”). Those who are already in China need to submit a copy of the visa page together with other application documents.

The JW 202 form and the admission notice will be sent to the applicant by the international courier within two weeks after the approval of the application.

* If you are local students from Hongkong, Macao and Taiwan, you don't need JW202 form.

Insurance & Certificate

Liability insurance: Students who plan to attend this program should have obtained insurances before they come to study in China.

After completing the ISRI Program and submitting the final report, you will receive a certificate awarded by SJTU.

Contact

Shanghai Jiao Tong University
 Email: isc.mobility@sjtu.edu.cn
 Website: <http://isc.sjtu.edu.cn>

Relevant Laboratories

School of Materials Science and Engineering

LAB	RESEARCH FIELDS	CONTACT
National Engineering Research Center of Light Alloy Net Forming	<ul style="list-style-type: none"> ◆ Research and development on Al alloys with high properties ◆ Research and development on Mg alloys with high properties ◆ Casting technology of light alloys ◆ Plastic deformation technology of light alloys ◆ Microstructure characterization of light alloys ◆ Severe Plastic deformation of Al and Mg alloy materials ◆ Mg-based Biomaterials ◆ Mg-based Energy Materials 	Prof. Qudong WANG, wangqudong@sjtu.edu.cn
State Key Lab of Metal Matrix Composites	<ul style="list-style-type: none"> ◆ Advanced Materials 	Prof. Xiaobin HU, hxb@sjtu.edu.cn

School of Electronic Information and Electrical Engineering

LAB	RESEARCH FIELDS	CONTACT
Digital Media & Data Reconstruction Lab (DMDR Lab)	<ul style="list-style-type: none"> ◆ Image Processing ◆ Digital Media 	Ms. Jiang Tao, bumbby@qq.com
Information and Coding Theory	<ul style="list-style-type: none"> ◆ Communication Coding Theory ◆ Information Theory ◆ Storage ◆ System Monitor Control ◆ Computer Security 	Prof. Yuan LUO, luoyuan@cs.sjtu.edu.cn
Key Laboratory of System Control and Information Processing, Ministry of Education	<ul style="list-style-type: none"> ◆ Prediction, Control and Optimization Technology of Complex Systems ◆ Autonomous System and Network Engineering ◆ Health and safety-oriented image processing 	Ms. Xia Li, li_xia@sjtu.edu.cn

School of Mechanical Engineering

LAB	RESEARCH FIELDS	CONTACT
Center for Combustion and Environmental Technology	<ul style="list-style-type: none"> ◆ New Concepts of Engine Combustion ◆ Alternative Fuel Vehicle Engine ◆ Combustion Diagnosis with Mass Spectrometer and Laser ◆ Air Pollutants Purification Technologies ◆ Ultrafine Particle and Environmental Impacts ◆ Photocatalysis Technology ◆ Nano Materials Synthesis in Flame 	Dr. Lei Zhu, tonyzhulei@sjtu.edu.cn
Biomechatronics and Biorobotics Laboratory	<ul style="list-style-type: none"> ◆ Bio-mechatronics ◆ Robotics 	Dr. Xinjun SHENG, xjsheng@sjtu.edu.cn
Engine Research Laboratory	<ul style="list-style-type: none"> ◆ Flash boiling Spray Characterization of Direct Injection Gasoline Injectors ◆ Research of breakup mechanism of liquid jet via dimensionless analysis ◆ Research of combustion process based on an optical engine 	Dr. Xiaodong WU, xiaodongwu@sjtu.edu.cn

University of Michigan-Shanghai Jiao Tong University Joint Institute

LAB	RESEARCH FIELDS	CONTACT
Dynamic System Control Laboratory	<ul style="list-style-type: none"> ◆ Motion/Motor Control ◆ Electric Vehicle Dynamics ◆ Hybrid Energy System ◆ Wireless Power Transfer 	Prof. Chengbin MA, chbma@sjtu.edu.cn
Flow Sensing and Diagnostic Laboratory	<ul style="list-style-type: none"> ◆ General Motors Company(USA) ◆ Henkel Corporation 	Prof. David Hung, dhung@sjtu.edu.cn
Spray-On Photovoltaic Solar Cell Lab	<ul style="list-style-type: none"> ◆ High speed imaging of liquid thin films made by spray and spin coating ◆ Fabrication and characterization of thin films ◆ Fabrication and characterization of solarcells 	Prof. Morteza Eslamian, morteza.eslamian@sjtu.edu.cn

School of Life Sciences & Biotechnology

LAB	RESEARCH FIELDS	CONTACT
Global Mental Health Research Center (Weidong LI's Lab)	<ul style="list-style-type: none"> ◆ Optogenetics, CLARITY, Deep brain imaging in animal models 	Prof. Weidong LI, liwd@sjtu.edu.cn
Laboratory of Plant Developmental Biology	<ul style="list-style-type: none"> ◆ Cloning and functional characterization of rice male sterile genes ◆ Using genome editing technology creates rice mutants ◆ Molecular characterization of GMOs 	Prof. Dabing ZHANG, zhangdb@sjtu.edu.cn

School of Biomedical Engineering

LAB	RESEARCH FIELDS	CONTACT
Lab of Medical Imaging and Image Processing	<ul style="list-style-type: none"> ◆ Multi-source CT Systems and Methods ◆ CT reconstruction and MRI reconstruction based on Compress Sensing ◆ Computer aide colon polyps detection ◆ Computer aide lung nodules detection 	Dr. Jianqi SUN, milesun@sjtu.edu.cn
Neural Engineering Laboratory	<ul style="list-style-type: none"> ◆ Cognitive Neural Engineering ◆ Brain Modulation 	Dr. Shanbao TONG, stong@sjtu.edu.cn
Neuroscience and Neuroengineering Research Center	<ul style="list-style-type: none"> ◆ Gene therapy and stem-cell-combined gene therapy for ischemic stroke ◆ The pathogenesis and intervention of cerebral ischemia; Real-time live imaging of the cerebral microvasculature of experimental animals 	Prof. Guoyuan YANG, gyyang0626@gmail.com
Xia Lab on Sirtuin Biology and Cancer Studies	<ul style="list-style-type: none"> ◆ Exosome function lung cancer resistance ◆ Sirtuin regulation in squamous lung cancer 	Prof. Weiliang XIA, wlxia@sjtu.edu.cn

Department of Physics and Astronomy

LAB	RESEARCH FIELDS	CONTACT
Institute of Nuclear and Particle Physics (INPAC), Laboratory of the Underground Physics	<ul style="list-style-type: none"> ◆ Dark Matter Detection 	Prof. Xiangdong JI, xdji@sjtu.edu.cn Prof. Jianglai LIU, jianglai.liu@sjtu.edu.cn

School of Pharmacy

LAB	RESEARCH FIELDS	CONTACT
King's Lab	<ul style="list-style-type: none"> ◆ Pain Biology ◆ Diabetes 	Prof. Yong X. WANG, yxwang@sjtu.edu.cn
Fu Lab	<ul style="list-style-type: none"> ◆ Drug discovery and development research on anti-cancer and anti-diabetes diseases with new chemical entities and various drug candidates 	Prof. Lei FU, leifu@sjtu.edu.cn