

2021

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# INTERNATIONAL UNDERGRADUATE ADMISSIONS

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## MESSAGE FROM THE DEAN



**Dear Prospective Students,**

Welcome to the University of Michigan – Shanghai Jiao Tong University Joint Institute (UM-SJTU JI) – an elite engineering institution located in Shanghai. This brochure will provide insight into what it is like to live and learn at a prestigious institution in the largest and most dynamic metropolis in China.

After more than a decade, UM-SJTU JI has grown to become a highly regarded institute with significant academic impact and an international reputation. As a leader in higher education innovation, the Joint Institute has been awarded the Model of International Education in Shanghai, the Model of China's Higher Education, and the prestigious Andrew Heiskell Award.

Two of our undergraduate majors, Mechanical Engineering and Electrical & Computer Engineering, have achieved ABET accreditation. Its curriculum blends the unique features of the University of Michigan and Shanghai Jiao Tong University. All courses are taught in English by world-class faculty recruited from leading universities around the world. JI is designed to serve as a base for international higher education. As we foster engineering students' intellectual curiosity and creativity, we also train them to be critical thinkers, strong communicators, and effective leaders in their fields.

At the Joint Institute, we emphasize Internationalization, Interdisciplinarity, Innovation, and Quality through our education and research programs and through our service to students. Two powerhouse universities had a vision for collaboration and their ongoing efforts have generated an amazing wealth of academic exchanges and multicultural encounters for our students.

I sincerely invite you to explore your potential future with us.

  
Peisen Huang  
Professor and Dean

# THE JI AT A GLANCE

The University of Michigan-Shanghai Jiao Tong University Joint Institute was founded in 2006 by the University of Michigan and Shanghai Jiao Tong University with a goal of building a world-class teaching and research institute in China dedicated to nurturing future leaders.

**Shanghai Jiao Tong University**  
**QS 2021**

**# 47**

## Rankings in China

- One of top 4 comprehensive universities
- More than 40,000 students on campus
- International students are from over 60 different countries worldwide

**University of Michigan**  
**QS 2021**

**# 21**

## Rated by U.S NEWS 2020

- 6 (tie) in Best Undergraduate Engineering Programs
- 5 in Materials
- 5 in Mechanical
- 7 in Computer
- 6 in Electrical / Electronic / Communications
- 1 in Management
- 2 in Industrial / Manufacturing

**72%**

faculty members with national and municipal talent awards

**50%**

international faculty members

The first Chinese institute to win the Andrew Heiskell Award for Innovation in International Education

**7**

7 Alumni are selected to Forbes 30 Under 30 Asia or China

**80%**

Around 80% of those who choose to continue their studies at American universities enter top 20 engineering graduate schools

**100**

over 100 global partners

Winner of the National Teaching Achievement Award

**19**

dual-degree majors

**2**

2 ABET accredited undergraduate programs

**45 %**

Over 45% students receive scholarships

**28**

research laboratories

**4**

research centers

**100%**

100% engineering and science faculty members with Ph.D. degrees

1alumnus is selected to 30 Under 30 Future Leaders of Mfg. USA 2018

**30**

over 30 countries of international students

**85%**

Over 85% undergraduate students pursue graduate study at top universities

**I<sup>3</sup>Q**



A panoramic view of the Shanghai skyline at sunset. The sky is a mix of orange, yellow, and blue. The city lights are beginning to glow, and the Huangpu River is visible in the foreground with several boats. The Oriental Pearl Tower is prominent on the left side of the skyline.

Shanghai is one of the largest, most diverse, vibrant and modernized metropolises in the world. Also one of the safest cities in China, Shanghai flourishes as a center of commerce between East and West and has been described as the "showpiece" of the world's fastest-growing major economy. Over 400 of the Fortune Global 500 companies across industries ranging from finance to technology have their research centers or regional offices in the city. Amazing international opportunities await you here in Shanghai!

# SHANGHAI



# SJTU CAMPUS

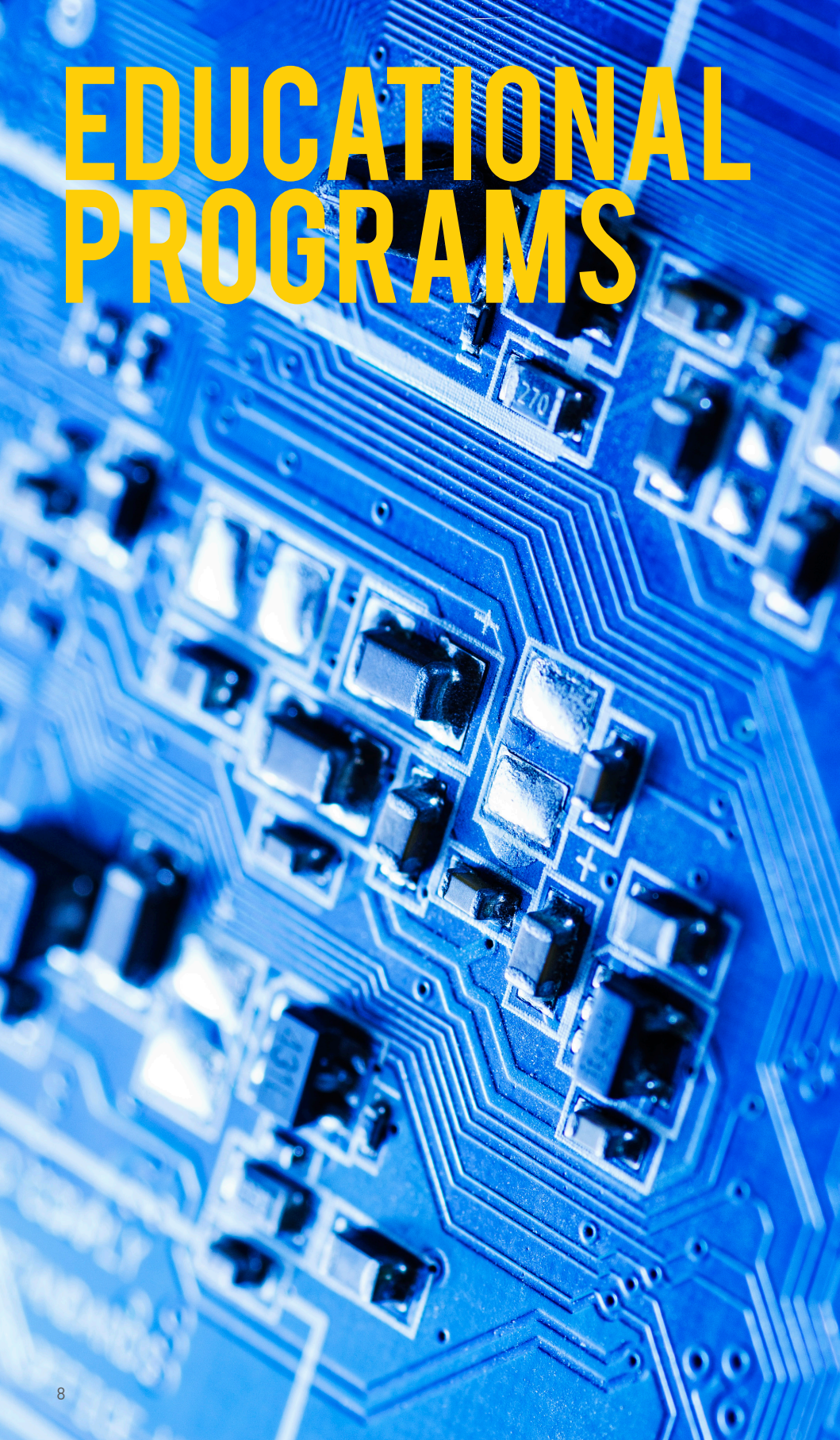
- One of the oldest and most recognized Chinese universities in the world
- 344 student associations
- Access to a wealth of print and electronic resources at subject-specific libraries
- Six dining halls on campus, with local cuisines and international flavors
- 24-hour, free high-speed WI-FI coverage on campus
- Many on-campus entertainment and sports venues, including a cinema, a bowling alley, stadiums, indoor swimming pools, piano rooms, karaoke, etc.

# ENJOYABLE



# CAMPUS LIFE





# EDUCATIONAL PROGRAMS

## 3 MAJORS

Mechanical Engineering (ME) Program  
Electrical and Computer Engineering (ECE) Program  
Materials Science and Engineering (MSE) Program

## 19 DUAL DEGREE PROGRAM

With University of Michigan Bachelor of Science Degrees in:

- Aerospace Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Climate and Meteorology
- Computer Engineering
- Computer Science
- Data Science
- Electrical Engineering
- Engineering Physics
- Environmental Engineering
- Industrial and Operations Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Naval Architecture and Marine Engineering
- Nuclear Engineering and Radiological Sciences
- Space Science and Engineering
- Mathematics (LSA)
- Physics (LSA)

## 6 MINORS

Entrepreneurship  
Data Science  
Computer Science  
Global China Studies  
Industrial AI  
Electrical and Computer Engineering

## 6 GLOBAL DEGREE PATHWAYS (GDP) PARTNER SCHOOLS

University of Michigan, US  
North Carolina State University, US  
University of California at Irvine, US  
University of Southern California, US  
Royal Institute of Technology, Sweden  
Trinity College Dublin, Ireland





## SJTU UNDERGRADUATE ENGINEERING PROGRAMS IN ENGLISH

### SJTU Undergraduate Engineering Programs in English

International students who apply for SJTU's undergraduate English programs will spend one and a half years at JI. Thereafter, they may choose to continue their study at JI or transfer to another engineering school (in English or Chinese) to complete their bachelor's degree. Other engineering schools at SJTU include:

#### The School of Materials Science and Engineering

- Materials Science and Engineering

#### The School of Electronic, Information and Electrical Engineering

- Computer Science and Technology
- Information Engineering
- Automation

#### The School of Naval Architecture, Ocean and Civil Engineering

- Naval Architecture and Ocean Engineering

#### The School of Mechanical Engineering

- Mechanical Engineering
- Power and Energy Engineering

## DUAL DEGREE PROGRAM

Bachelor Degree  
from SJTU

Mechanical  
Engineering

Electrical and  
Computer  
Engineering

Material  
Science  
and  
Engineering



Bachelor Degree  
from UM

17 majors in  
Engineering

Mathematics

Physics

### 17 majors in Engineering

- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Climate and Meteorology
- Computer Engineering
- Computer Science
- Data Science
- Electrical Engineering
- Engineering Physics
- Environmental Engineering
- Industrial and Operations Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Naval Architecture and Marine Engineering
- Nuclear Engineering and Radiological Sciences
- Space Science and Engineering

- Students may apply for this program in the sophomore year and start to study at UM in the 3rd year.

## GLOBAL DEGREE PATHWAY PROGRAMS

- Students may apply for these programs during the junior year.
- Many options, simple process, high admission rates, and abundant scholarship.

### University of Michigan

#### College of Engineering

- Systems Engineering and Design
- Energy Systems Engineering
- Automotive Engineering
- Manufacturing
- Global Automotive and Manufacturing Engineering
- Mechanical Engineering
- Electrical and Computer Engineering
- Engineering, Naval Architecture and Marine Engineering

#### School of Information

- Data Analytics
- User Interface and Design

#### Statistics, School of Literature, Science and the Arts

- Applied Statistics

#### School of Environment and Sustainability

- Natural Resources and Environment

#### Ross School of Business

- Management

### Royal Institute of Technology

- Engineering Design
- Engineering Mechanics
- Naval Architecture
- Vehicle Engineering
- Machine Learning
- Media Management
- Electrophysics
- Electric Power Engineering
- Network Services and Systems
- Systems, Control and Robotics
- Wireless Systems
- Embedded Systems
- Communication Systems
- Medical Engineering

### Trinity College Dublin

#### College of Engineering

- Mechanical Engineering
- Electrical Engineering
- Computer Engineering
- Electrical & Computer Engineering

### University of Southern California

#### The USC Viterbi School of Engineering

### University of California at Irvine

- Mechanical Engineering
- Electrical Engineering
- Computer Engineering
- Electrical & Computer Engineering

### North Carolina State University

- Mechanical Engineering
- Electrical Engineering
- Computer Engineering

### Continuous exploration of international collaboration

## NON-ENGINEERING MINORS





# INTERNATIONAL PROGRAMS

An aerial photograph of a city in winter. The foreground shows snow-covered rooftops of brick buildings. In the middle ground, a parking lot filled with cars is visible, surrounded by snow. The background features a large body of water covered with numerous ice floes under a clear sky.

## EXCHANGE PROGRAMS

Exchange programs are open to students starting their sophomore year. They may choose to spend up to one academic year (JI's spring, summer, and fall semesters) in an exchange program.

JI currently offers the following exchange programs:

- Global E<sup>3</sup>
- University of California (9 campuses), US
- North Carolina State University, US
- Erlangen - Nuremberg University, Germany
- RWTH Aachen University, Germany
- Technical University of Munich, Germany
- Karlsruhe Institute of Technology, Germany
- KTH Royal Institute of Technology, Sweden
- Lappeenranta University of Technology, Finland
- University of Navarra, Spain
- Delft University of Technology, Netherlands
- University of Leuven, Belgium
- Trinity College Dublin, Ireland
- University of Warwick, UK

Further options are available through SJTU's international programs.

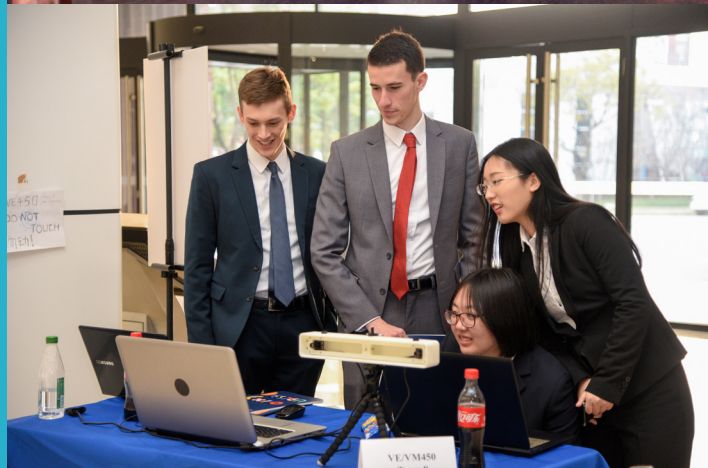
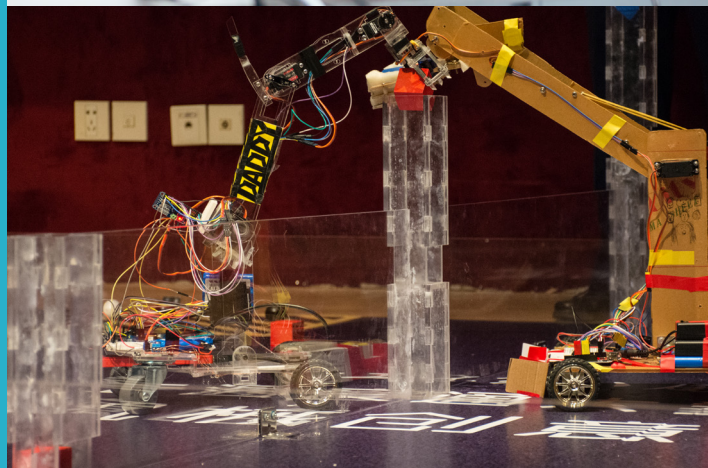


## SHORT-TERM STUDY ABROAD PROGRAMS

Short-term study abroad programs are open to all JI students. Most of these programs are offered from January to February, during JI's winter break.

Ji currently offers the following short-term study programs:

- Technical University of Berlin, language program, Germany
- Technical University of Berlin, engineering program, Germany
- University of Technology of Troyes, France
- University of Navarra, Spain
- University of Adelaide, Australia
- Ritsumeikan University, Japan
- Sophia University, Japan
- McGill University, Canada
- Institute of Technology Buenos Aires, Argentina
- Peter the Great St. Petersburg Polytechnic University, Russia
- University of Warwick, UK
- Massachusetts Institute of Technology, US
- North Carolina State University, US
- Tallin University, Estonia
- University of Pécs, Hungary



Building a strong faculty team is key to JI's mission to cultivate future global leaders. Currently, JI has 61 faculty members, all who have either graduated from or worked at world-class universities or institutions.

Ji faculty is sourced from all over the world. All hold advanced degrees in subfields of science and engineering, mathematics, liberal arts and business. Committed to excellence in teaching and advising, JI faculty also hold themselves to the highest standards in scholarly research and serve as professional role models to students. The strong faculty team lays a solid foundation for JI to achieve its mission of fostering innovative researchers and leaders with a global perspective.

The international academic environment of JI allows faculty, visiting scholars, and students to work at the frontiers of technology. Currently, JI has 4 research centers and 28 research laboratories. JI's research projects are funded by Chinese national and municipal governments, local industries, and foreign entities.



# SPOTLIGHTS ON INTERNATIONAL STUDENTS



**Muhammad Ghazan Khattak (Mechanical Engineering, Class of 2018)**

"Coming from Pakistan to a completely different culture, I was scared a little, but thanks to the JI family it has been an amazing year at JI. Along with its quality education, the amazing Chinese friends and the extracurricular activities here on campus make the life very enjoyable."



**Rui Silva (Electrical and Computer Engineering, Class of 2018)**

"The college lifestyle most students think of is different from reality. Part of this reality is the realization that they have to adapt to the new surroundings as quickly as possible in order to achieve their objectives right away. Fortunately, at JI, I overcame all the obstacles and I couldn't be happier attending this exquisite institute!"



**Ashley Ng (Electrical and Computer Engineering, Class of 2019)**

"Taking courses in English, having professional conversations with foreign professors, playing a role in student-based services are part of every JIers' daily life. The international academic environment enables me to think with a global vision. I feel grateful to be part of JI."



**Richard Murray (Electrical and Computer Engineering, Class of 2021)**

"To any students who are considering JI, life here will most likely be different to your lives now whether you are Chinese students or international students. If you are looking for a new experience, I believe JI is the perfect place for you, but even if you are not, JI is still a great choice that will provide you with many different possibilities."



**Chapwit Na Muangtoun (Electrical and Computer Engineering, Class of 2020)**

"Studying at JI requires strong time management skills. Your mindset needs to be focused and ready when you come here. If you are seeking a unique challenge, JI will not let you down."



# EXTRACURRICULAR ACTIVITIES



Jl students are very active in extracurricular activities. Within Jl, there are 11 student associations and 10 student clubs. In addition, 168 student associations and clubs are open to all students on the SJTU campus. These student associations and clubs can be classified into five main categories: politics and economics, volunteering and charity, science and engineering, culture and art, and sports and fitness.



# UNDERGRADUATE PLACEMENT 2010-2020

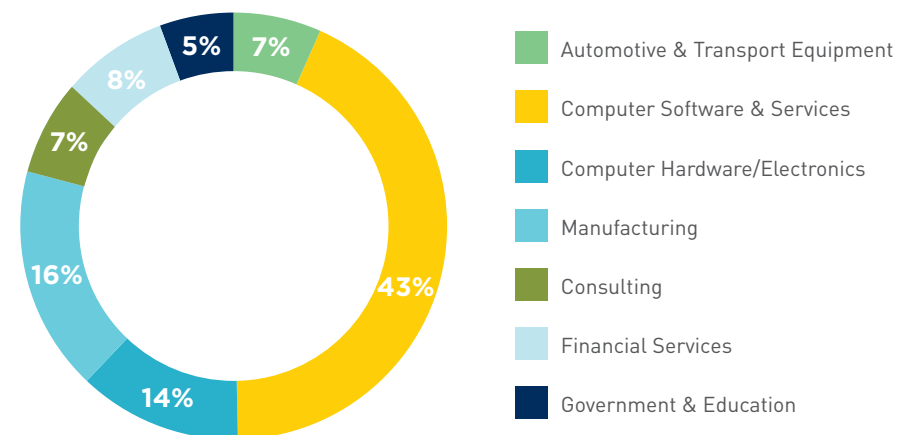


- Every year, more than 83% of JI graduates continue to pursue graduate study at top universities worldwide. 80% of those who choose to continue their studies at American universities enter top 20 engineering graduate schools.
- Many alumni have taught in top universities, including Georgia Institute of Technology, Tsinghua University, University of Texas Austin, and Shanghai University of Science and Technology.
- JI alumni are also emerging in the field of entrepreneurship, some listed on Forbes Asia 30 under 30, Forbes China 30 under 30 business leaders.
- 100% of graduates who choose to enter the job market are employed by key industries and multinational companies at home and abroad, such as Huawei, Apple, Microsoft, Google, Intel, Amazon, Bosch, Commercial aircraft of China, Shanghai Volkswagen, Facebook, McKinsey Consulting, Boston Consulting, PricewaterhouseCoopers Consulting, etc., in China, the United States, the United Kingdom, Singapore, Japan and other regions

## ADMISSIONS TO TOP ENGINEERING GRADUATE SCHOOLS FROM 2010 TO 2020

Massachusetts Institute of Technology	12
Stanford University	56
University of California-Berkeley	48
California Institute of Technology	2
University of Michigan-Ann Arbor	623
Carnegie Mellon University	102
Purdue University	16
Georgia Institute of Technology	40
University of Illinois-Urbana-Champaign	35
University of Southern California	127
University of Texas-Austin	20
Columbia University	77
Texas A&M University	14
University of California-San Diego	62
Cornell University	24
University of California-Los Angeles	39
Princeton University	8
Johns Hopkins University	12
University of Pennsylvania	33
Northwestern University	12
University of Wisconsin-Madison	6

## UNDERGRADUATE JOB PLACEMENT (2010-2020)





# SCHOLARSHIPS

Outstanding students will be awarded scholarships, such as Chinese Government Scholarship, Shanghai Government Scholarship, Shanghai Jiao Tong University scholarship and others.

Applicants for Chinese Government Scholarship should directly contact the local Chinese Embassy or Consulate. When completing the scholarship application form, applicants should select Shanghai Jiao Tong University as their first choice.

## Contact Information

Admission Office of International Student Center, SJTU  
Address: Room 100A, New Administration Building B,  
800 Dongchuan Rd, Shanghai, China  
Post code: 200240  
Tel: 86-21-54743244  
E-mail: [isc.d@sjtu.edu.cn](mailto:isc.d@sjtu.edu.cn)  
Website: <http://isc.sjtu.edu.cn>

UM-SJTU Joint Institute (JI)  
Address: UM-SJTU Joint Institute, 800 Dongchuan Rd,  
Shanghai, China  
Post code: 200240  
Tel: +86-21-3420-6045 ext. 4492  
E-mail: [ji-intadm@sjtu.edu.cn](mailto:ji-intadm@sjtu.edu.cn)  
Website: <https://ji.sjtu.edu.cn>

## APPLICATION DEADLINES

Early Action — November 15  
Regular Decision — April 15

## REQUIRED MATERIALS

- Test Scores

SAT/ACT/A-level/IB (International Baccalaureate)  
TOEFL (iBT)/IELTS

- Recommendations

- High School Transcripts

- Estimated Tuition and Fees

Tuition: 80,000 CNY/Year  
Room and Board: 4650 USD  
Books and Supplies: 300 USD. This figure represents the average cost and is subject to change.

- Application Fee

All applicants are required to pay a nonrefundable application fee of 75 USD.

## ON-LINE APPLICATION

<https://apply.commonapp.org/Login?ma=699>

# INTERNATIONAL ADMISSION REQUIREMENTS