



**西南交通大学**  
Southwest Jiaotong University

# **Southwest Jiaotong University**

## **Prospectus for Overseas Students**



**Chengdu, P. R. China**

**2014**







# Why SWJTU

Founded in 1896, Southwest Jiaotong University (SWJTU) is a national key university under the administration of Ministry of Education of P. R. China. It's one of the oldest universities in China. Its three campuses presently are located in Chengdu, the provincial capital of Sichuan province and Emeishan, the city with UNESCO World Cultural & Natural Heritage. Proud of its engineering talents all across the land, the university has committed itself to the country through science and technology. Being passionate about railway, SWJTU has determined to build itself into a world-class research-oriented university.

## Facts and Figures

<b>Faculty and Staff</b>		2400
Academicians of Chinese Academy of Science		4
Academicians of Chinese Academy of Engineering		6
Professors and Associate Professors		1, 100

  

<b>Total Student Number (full time)</b>	43, 500	<b>Education Programs</b>	Total
Undergraduates	24, 500	<b>Undergraduate</b>	72
Graduates	18,000	<b>Masters</b>	136
Overseas Students	1, 000	<b>Doctoral</b>	64

**Campus Area:** 500 hectares

### University Calendar

Fall Semester	Early September ~ Middle January
Spring Semester	Late February ~ Late June
Summer Semester for Chinese Language Study	June to August (2~5 weeks)
Winter Semester for Chinese Language Study	January to February (2~5 weeks)



# Undergraduate Programs

Schools	Programs
School of Civil Engineering	Civil Engineering
School of Mechanical Engineering	Mechanical Engineering and Automation
	Heat-Power and Dynamics Engineering
	Measuring & Control Techniques and Instruments
	Construction Environment and Equipment Engineering
	Vehicle Engineering
	Transportation Equipment and Information Engineering
	Industry Engineering
School of Electrical Engineering	Electrical Engineering and Automation
	Electronic and Information Engineering
	Electrical Engineering and Automation (Maglev and city rail transportation automation)
	Electrical Engineering and Automation (Electric traction and drive control)
School of Information Science and Technology	Computer Science and Technology (Network Engineering)
	Communication Engineering
	Automation
	Automation (Traffic Information Engineering & Control)
	Software Engineering (Computer Software)
	Information Security
	Electronics Science and Technology
	Internet of Things Engineering
School of Traffic and Logistics	Safety Engineering
	Transportation
	Traffic Engineering
	Logistics Engineering
	Logistics Management
School of Economics and Business Management	Information Management and Information System
	Accounting
	Business Administration
	E-Commerce
	Project Management
	Finance
School of Geological Science and Environmental Engineering	Environmental Engineering
	Fire Fighting Engineering
	Geological Engineering
	Survey Engineering
	Geographic Information System
	Remote Sensing Science and Technology

# Undergraduate Programs

Schools	Programs
School of Material Science and Engineering	Material Science and Engineering
	Material Molding and Control Engineering
	Biological Medicine Engineering
School of Mathematics	Mathematics and Applied Mathematics
	Information and Computation Science
	Statistics
School of Physical Science and Technology	Electronic Information Science and Technology
	Applied Physics
School of Political Science	Law
	Politics and Administrative Science
School of Public Administration	Public Affairs Management
	Economics
	International Economics and Trade
School of Architecture	Architecture
	City Planning
	Landscape Architecture and Design
School of Arts and Communication	Art Design(Graphic Design)
	Art Design(Environment Design)
	Industrial Design
	Painting
	Advertisement
	Musical Performing (Vocal Music Performance)
	Musical Performing(Music Education)
	Chinese and Literature
	Mass Media
School of Foreign Languages	English
	Japanese
	German
	French
	Chinese as a Foreign Language
	Translation
School of Mechanical Engineering	Engineering Mechanics
	Structural Analysis of Engineering
School of Life Science and Engineering	Biological Engineering
	Biological Information
	Pharmacy Engineering
	Traditional Chinese Medicine
Center for Psychological Research and Counseling	Applied Psychology

# Master's Programs

Schools	Programs
School of Civil Engineering	Geotechnical Engineering
	Structural Engineering
	Municipal Engineering
	Anti-Calamity and Elimination
	Bridge and Tunnel Engineering
	Road and Railway Engineering
	Architecture and Civil Engineering
	Traffic and Transportation Engineering
School of Mechanical Engineering	Manufacture and Its Automation
	Mechanic-Electronic Engineering
	Mechanical Design and Theory
	Vehicle Engineering
	City Rail Transportation Technology and Equipment
	Power Machinery and Engineering
	Heat Supply, Gas Supply, and Air-Conditioning Engineering
	Mechanical Engineering
	Instrument Engineering
School of Electrical Engineering	Electrical Engineering
	Rail Transit electrification and Information Technology
	Electromagnetic Suspension and Super-conduction Engineering
	Control Science and Engineering
School of Information Science and Technology	Circuit and System
	Education Technology
	Microelectronic and Solid Electronics
	Communication and Information System
	Signal and Information Processing
	Information Security
	Control Theory and I Engineering
	Computer Science and Technology
	Traffic Information Engineering and Control
	Software Engineering
	Electronic and Communication Engineering
	Integrated Circuit Engineering
	Control Engineering
	Computer Technology
	Traffic and Transportation Engineering
	Cryptography
School of Economics and Business Administration	Finance
	Industrial Economics
	Quantitative Economics
	Assets appraisal
	Industrial Engineering
	Project Management

# Master's Programs

Schools	Programs
School of Economics and Business Administration	Management Science and Engineering
	Business Administration
	Accounting
	Engineering Management
School of Traffic and Logistics	System Science
	Traffic and Transportation Planning and Administration
	Logistics Engineering
	Traffic Engineering
	Security Engineering
	Safety Science and Engineering
	Transportation Engineering
School of Architecture	Architecture
	Landscape Architecture
	Project Environment and Landscape
	Urban and Rural Ekistics
	Landscape Plants and Ornamental Landscape
School of Material Science and Engineering	Material Processing Engineering
	Material Engineering
	Biological Medicine Engineering
	Physics and Chemistry of Material
	Material Science
	Biochemical and Molecular Biology
	Chemical Engineering and Technology
	Pharmaceutical Engineering
	Bioengineering
	Pharmacy
	Chinese Pharmacy
School of Physical Science and Technology	Theoretical Physics
	Condensed Matter Physics
	Optical Engineering
	Physical Electronics
	Electromagnetic Field and Microwave Technique
School of Mechanics and Engineering	General Mechanics and Mechanical Basis
	Solid Mechanics
	Fluid Mechanics
	Engineering Mechanics
School of Foreign Languages	Foreign Language and Literature
	Translation
	Cartography and Geographic Information System
	Municipal Engineering
	Project Environment and Landscape
	Geodesy and Surveying Engineering
	Photogrammetry and Remote Sensing

# Master's Programs

Schools	Programs
School of Geological Science and Environmental Engineering	Cartography and Geography information Engineering
	Mineral Detailed Survey and Exploration
	Earth Detection and Information Technology
	Geological Engineering
	Environmental Science and Engineering
	Surveying and Mapping Engineering
	Safety Engineering
	Environmental Engineering
Physical Education Department	Sports Science
School of Arts and Communications	Theory of Literature and Art
	Linguistics and Applied Linguistics
	Chinese Philology
	Ancient Chinese Document
	Chinese Ancient Literature
	Modern and Contemporary Chinese Literature
	Comparative Literature and World Literature
	Chinese Minority Languages and Literature
	Journalism and Communication Studies
	Industrial Design
	Industrial Design Engineering
	Musicology and Dancology
	Fine Arts
	Design Studies
	The Arts
School of Public Administration	Philosophy
	Theoretical Economics
	Regional Economics
	Safety Engineering
	Public Administration
School of Mathematics	Basic Mathematics
	Probability Theory and Mathematical Statistics
	Applied Mathematics
School of Political Science	The Science of Law
	Politics
	Theory of Marxism
	Law
	Special history
	Basic Theory of Marxism
	Ideological Education
Traction Power State Key Laboratory	Vehicle Engineering
	Precision Instrument and Mechanism
	Vehicle Operation Engineering
	Transportation Engineering
MBA Centre	Business Administration



# Doctoral Programs

Schools	Programs
School of Civil Engineering	Geotechnical Engineering
	Structural Engineering
	Municipal Engineering
	Anti-Calamity and Elimination
	Bridge and Tunnel Engineering
	Road and Railway Engineering
School of Mechanical Engineering	Manufacture and Its Automation
	Mechanic-Electronic Engineering
	Mechanical Design and Theory
	Vehicle Engineering
	City Rail Transportation Technology and Equipment
	Heat Supply , Gas Supply , and Air-Conditioning Engineering
School of Electrical Engineering	Electrical Engineering
	Rail Transit electrification and Information Technology
	Electromagnetic Suspension and Superconduction Engineering
	Control Science and Engineering
School of Information Science and Technology	Communication and Information System
	Signal and Information Processing
	Information Security
	Control Theory and I Engineering
	Computer Science and Technology
	Traffic Information Engineering and Control
	Software Engineering
School of Traffic and Logistics	Traffic and Transportation Planning and Administration
	Traffic Engineering
	Transportation Engineering
School of Architecture	Project Environment and Landscape
School of Physical Science and Technology	Electromagnetic Field and Microwave Technique
School of Mechanics and Engineering	General Mechanics and Mechanical Basis
	Solid Mechanics
	Fluid Mechanics
	Engineering Mechanics
School of Geological Science and Environmental Engineering	Municipal Engineering
	Project Environment and Landscape
	Geodesy and Surveying Engineering
	Photogrammetry and Remote Sensing
	Cartography and Geography information Engineering
	Earth Detection and Information Technology
	Geological Engineering
Traction Power State Key Laboratory	Vehicle Engineering
	Vehicle Operation Engineering

# Courses Instructed in English for Postgraduate Students

Course	School	Level
Advanced Bridge Engineering	School of Civil Engineering	Master/PhD
Basic Engineering Seismology	School of Civil Engineering	Master/PhD
Concrete Bridge Design	School of Civil Engineering	Master/PhD
Constitutive Models of Geo-materials and Practical Application	School of Civil Engineering	Master/PhD
Emission Concerns in Design of Municipal Engineering	School of Civil Engineering	Master/PhD
Foundation Analysis and Design	School of Civil Engineering	Master
Geotechnical Earthquake Engineering	School of Civil Engineering	Doctoral
Principles of Pavement Material Design	School of Civil Engineering	Master/PhD
Railway Track Technology	School of Civil Engineering	Master
Railway Track Technology	School of Civil Engineering	Master/PhD
Similarity Theory and Geotechnical Center	School of Civil Engineering	Master/PhD
Soil Mechanics for Unsaturated Soil	School of Civil Engineering	Master
Structural Stability Theory and Implement	School of Civil Engineering	Master
Structural Dynamics	School of Civil Engineering	Master
Tunneling Mechanics	School of Civil Engineering	Master/PhD
Vehicle-Track-Subgrade System Dynamics	School of Civil Engineering	Master/PhD
Analysis for Marketing Strategy	School of Economics and Business Administration	Master
Consumer Behavior Research	School of Economics and Business Administration	Master
Customer Relationship Management	School of Economics and Business Administration	Master
Global Marketing	School of Economics and Business Administration	Master
Internet Economics and Management	School of Economics and Business Administration	Master
Internet Marketing	School of Economics and Business Administration	Master
Investment Science: Mathematical Modeling Perspective	School of Economics and Business Administration	Master/PhD
Management	School of Economics and Business Administration	Master/PhD
Marketing Metrics	School of Economics and Business Administration	Master
Neuromarketing	School of Economics and Business Administration	Master
Operation Research (I)	School of Economics and Business Administration	Master/PhD
Operations Research (II)	School of Economics and Business Administration	Master
Project Management	School of Economics and Business Administration	Master
Project Management Software & Case Study	School of Economics and Business Administration	Master
Research Methodology on Information Management	School of Economics and Business Administration	Master
Services Marketing	School of Economics and Business Administration	Master
Strategic Brand Management	School of Economics and Business Administration	Master
Strategic Management	School of Economics and Business Administration	Master
Basic Chinese I	School of Foreign Languages	Master/PhD
Basic Chinese II	School of Foreign Languages	Master
Chinese Cultural	School of Foreign Languages	Master/PhD
Chinese Overview	School of Foreign Languages	Master/PhD

# Courses Instructed in English for Postgraduate Students

Course	School	Level
Chinese Overview	School of Foreign Languages	Master/PhD
GIS Principles and Application	School of Geological Science and Environmental Engineering	Master
Introduction to Rock Mechanics	School of Geological Science and Environmental Engineering	Master
Communication System Modeling and Simulation	School of Information Science and Technology	Master
Computer Network Communications Infrastructure	School of Information Science and Technology	Master
Service Computing and Web Services	School of Information Science and Technology	Master/PhD
Information Retrieval and Web Search	School of Information Science and Technology	Master/PhD
Machine Learning	School of Information Science and Technology	Master/PhD
Computer Vision	School of Information Science and Technology	Master/PhD
Principle and Applications of Error Correcting Code	School of Information Science and Technology	Master
Pattern Recognition	School of Information Science and Technology	Master/PhD
Adaptive Signal Processing	School of Information Science and Technology	Master/PhD
Experimental Design	School of Mathematics	Master
Modern Analysis	School of Mathematics	Master
Statistical Methods and Data Analysis	School of Mathematics	Master
Finite Element Methods II	School of Mechanical Engineering	Master
Intelligent Condition Monitoring	School of Mechanical Engineering	Master
Nonlinear Continuum Mechanics	School of Mechanical Engineering	Master
Strength Theories, Damage and Fracture	School of Mechanical Engineering	Master
Finite Element Methods I	School of Mechanics and Engineering	Master
Web Mining Technology	School of Mechanics and Engineering	Master/PhD
Contemporary Relation of China and USA	School of Political Science	Master
Survey Methodology	School of Political Science	Master
Fundamentals of Traffic Engineering	School of Traffic and Logistics	Master
High Transportation Characteristics	School of Traffic and Logistics	Master
International Logistic	School of Traffic and Logistics	Master
Nonlinear Signal Processing	School of Traffic and Logistics	Master/PhD





# How to Apply

Those in good health, ready to abide by Chinese laws, decrees and the university regulations, and those who are willing to respect Chinese customs and habits can apply based on their own needs.

<b>Application Date</b>	Spring Semester November 15 <sup>th</sup> to January 15 <sup>th</sup>		Fall Semester March 15 <sup>th</sup> to July 15 <sup>th</sup>
<b>Programs Available</b>	Master's, Doctoral and Chinese Language Programs		All SWJTU Programs
<b>Requirements</b>	Undergraduates	High school graduates with good records	Humanities and Social Science: HSK exam score above Level 5 Science & Engineering: HSK exam score above Level 4
	Master's students	Equal to a Chinese BA or BS. Graduated from SWJTU or a Chinese college with good records & recommended by 2 professors or 2 associate professors	HSK exam score above Level 5; Written exam on a major subject or interview
	Doctoral candidates	Equal to Chinese MA or MS, recommended by 2 professors	HSK exam score above Level 5; Written exam on a major subject or interview
<b>Application Procedure</b>	1. By Email: jhxx@swjtu.cn		
	2. Online Application: <a href="http://www.studyatswjtu.com/shop/member!index.action">http://www.studyatswjtu.com/shop/member!index.action</a>		

Registration at SWJTU	
<b>Documents for Registration</b>	<ul style="list-style-type: none"> <li>✓ Student (X) Visa to China</li> <li>✓ SWJTU Administration Notice</li> <li>✓ JW202 Form (original)</li> <li>✓ Physical Examination Record for Foreigners (original)</li> <li>✓ Blood Test Report for HIV and Syphilis (original)</li> <li>✓ Eight Copies of Personal Photo</li> </ul>
<b>Note</b>	Please take the following documents to International Affairs Office of SWJTU (Room 605 in Library Building at Xipu Campus) for registration soon after your arrival at SWJTU
<b>After Arrival</b>	<ul style="list-style-type: none"> <li>➤ Within 30 days after arrival, the student should go to the Chengdu Sanitation &amp; Anti-epidemic Bureau for a health checkup.</li> <li>➤ Having received the Qualification Certificate, the student must go to the Chengdu Municipal Public Security Bureau for the Residence Permit for Foreigners.</li> </ul>

# Fees

Application Fee	RMB 600 yuan/person		
Types	Economy and Management, Liberal Arts (RMB/person/year)	Science and engineering (RMB/person/year)	Art Design, Architecture (RMB/person/year)
Undergraduate student	18, 000 RMB	23, 000 RMB	25, 000 RMB
Master student	22, 000 RMB	25, 000 RMB	26, 000 RMB
Doctoral student	26, 000 RMB	36, 000 RMB	36, 000 RMB

# Scholarships

Chinese Government Scholarship	
About the Scholarship	This Scholarship is set up by the Ministry of Education of P. R. China in order to attract more outstanding Master's and Doctoral students from renowned universities globally and build up a group of first-class universities in the world. SWJTU is one of the few high ranking universities listed under this program.
Available for	Chinese Language Students General Scholars Bachelor's Degree Students Master's Degree Students Degree Students Doctoral Degree Students
Deadline of Application	15 <sup>th</sup> of April
Application Method	<a href="http://www.csc.edu.cn/laihua/indexen.aspx">http://www.csc.edu.cn/laihua/indexen.aspx</a>
Scholarship Coverage	Full scholarship covers one's tuition fee, accommodation fee on campus, comprehensive medical insurance and living stipend.



Southwest Jiaotong University President Scholarship	
<b>Application Methods</b>	Applicant submits your application materials to International Affairs Office of Southwest Jiaotong University before June, 30 in each year. All application materials will not be returned. In the mid July in every year, experts organized by International Affairs Office of Southwest Jiaotong University shall review all application materials. After approval, International Affairs Office of Southwest Jiaotong University will notice the result to the applicants soon.
<b>Scholarship Category</b>	Full Scholarship: Doctoral Degree Students (4 students) Partial Scholarship: Master Degree Students (10 students). Supply 10,000 RMB/year/student subsidy (1,000 RMB/month) Partial Scholarship: Bachelor Degree Students (40 candidates). The University offers financial assistance to scholarship recipients 5,000 RMB in 10 months for their daily subsistence and other expenses that may incur during the program of study in a year.
<b>Application</b>	Online Application: <a href="http://www.studyatswjtjtu.com/shop/member!index.action">http://www.studyatswjtjtu.com/shop/member!index.action</a>
<b>Contact</b>	Mr. Xu Junhua Tel: +86 28 66366343 E-mail: <a href="mailto:jhxu@swjtu.cn">jhxu@swjtu.cn</a> Add: Library RM 605B, International Students Section, International Affairs Office, Southwest Jiaotong University, Western Hi-tec Zone, Chengdu, Sichuan, 611756 P. R. China

Southwest Jiaotong University Confucius Institutes Scholarship	
<b>About the Scholarship</b>	In order to support the development of Confucius Institutes, facilitate Chinese language promotion and Chinese cultural transmission in the world, cultivate qualified Chinese language teachers and talented students of Chinese language, Confucius Institute Headquarters/Hanban (hereinafter referred to as Hanban) launches the “Confucius Institute Scholarship” program to provide financial aid for students, scholars and Chinese language teachers worldwide to study at Southwest Jiaotong University in such majors as Chinese Language and Literature, Chinese History and Chinese Philosophy.
<b>Available for</b>	One-Semester Students
<b>More Information</b>	<a href="http://english.swjtu.edu.cn">http://english.swjtu.edu.cn</a>
<b>Contact</b>	Division of Testing and Scholarship, Confucius Institute Headquarters / Hanban Address: 129, Deshengmenwai Street, Xicheng District, Beijing, 100088. Fax: +86-10-58595937 Email: <a href="mailto:scholarships@hanban.org">scholarships@hanban.org</a> Confucius Institute Scholarship Website: <a href="http://cis.chinese.cn">http://cis.chinese.cn</a> HSK and HSKK Website: <a href="http://www.chinesetest.cn">http://www.chinesetest.cn</a>



# Living on Campus

## Accommodation

Accommodation at SWJTU		
<b>Xipu Campus Dormitory Apartment</b>	Single Room	1000 RMB/month/ person
	Two-Bedroom	600 RMB/month/ person
	Three-Bedroom	500 RMB/month/ person
<b>Jiuli Campus Dormitory</b>	Single Room	500 RMB/month/ person
<b>Off-Campus Apartment</b>	There is a residential area around the campus with an elegant environment. It is very secure and well managed. It offers suites of 60 to 150 square meters.	The rent is about 800 to 2,500 RMB/ suite/ month. Students can rent different types of suites according to their own needs.

## Banking

<b>Cash Machines</b>	Cash Machines can be found at places like student canteens on northern and southern campus. Cards issued by many international finance systems such as VISA, Master Card, JCB, American Express, Diners, Discovery can be used on Cash Machines in China.
<b>Bank</b>	The Industrial and Commercial Bank of China (ICBC), the China Construction Bank (CCB) are located on campus.
<b>Currency Exchange</b>	Many bank branches in Chengdu provide foreign currency exchange service. You can change your money into RMB conveniently.

## Dining

<b>Student Canteens</b>	The dining halls for SWJTU students are famous for their good service and reasonable price among the universities in Chengdu. There are more than 10 student dining halls on new campus and old campus, providing a variety of dishes including Muslim and Western food. Close to the Overseas Student Dormitories is the 4th student dining hall.
<b>Restaurant</b>	There are several Sichuan-style restaurants, Muslim restaurants and other specialty restaurants.



**Chengdu' Geographic Location in People's Republic of China**



**International Direct Flights Route-map of Chengdu International Airport (CTU)**

## CONTACT US

Mr. Xu Junhua Tel: +86 28 66366343

E-mail: [jhxu@swjtu.cn](mailto:jhxu@swjtu.cn)

Add: Library Rm605B, International Students Section, International Affairs Office,

Southwest Jiaotong University, Western Hi-tech Zone, Chengdu, Sichuan, 611756 P.R.China