



## **2017 International Graduate Programs School of Agriculture and Biology, Shanghai Jiao Tong University**

### **Overview of Shanghai Jiao Tong University:**

Shanghai Jiao Tong University (SJTU) was founded in 1896, it is one of the oldest renowned universities in modern China. In the years of 1920's and 1930's, SJTU was crowned as the oriental MIT adapted and implemented as the world's most advanced teaching and research center. So far, SJTU has educated nearly 300,000 outstanding graduates for the country. Among them are former Chinese president Jiang Zemin and the "The Father of the Chinese Aerospace" Qian Xuesen.

As a comprehensive university, SJTU offers a wide range of academic programs with sciences as foundation; engineering, bio-medicine, and management as backbone besides that law, economics, humanities and social sciences are developing in their own unique features. The three disciplines Naval Architecture and Ocean Engineering, Mechanical Engineering, and Clinical Medicine continue to rank first in China, 9 disciplines rank top 3 and 15 disciplines rank top 5 among Chinese universities. 15 disciplines have entered the top 1% in the Essential Science Indicators (ESI), which ranks second among domestic colleges and universities.

SJTU extensively implements internationalization strategies, expands and deepens substantial co-operation with top-notch peers around the world. SJTU China Europe International Business School, the SJTU-UM Joint Institute and SJTU-Paris Tech Elite Institute of Technology have become models of international co-operation in China. During 2014, SJTU received over 6600 overseas visitors, hosted 54 international academic conferences and engaged 96 long-term foreign experts. In addition, there are more than 5500 overseas students coming to SJTU each year. The creation of an international environment has enabled the SJTU students to develop a global vision and an all-inclusive mentality.

SJTU situated in Shanghai, the most dynamic city in East Asia, its students and faculty members enjoy both campus life and abundant offerings of various rich cultures. The five campuses Xuhui, Minhang, Luwan, Qibao and Fahu of the university take up an area of 400 hectares, housing a variety of activities from student life, athletics, and entertainment to research with laboratory facilities among the best in China.

### **Overview of School of Agriculture and Biology (SAB):**

SAB is established in 1959. It is a modern agricultural research base center in Shanghai which has 5 departments including Food Science & Engineering, Resource and Environment, Landscape Architecture, Plant Sciences and Animal Sciences. Currently, the school has more than 1100 students among which 500 are graduate students. The faculty includes 147 full time teachers (143 doctors) among which more than 50 are professors. SAB now has 5 bachelor degree subjects (Plant Science, Animal Science,

Food Science and Engineering, Landscape Architecture, Resource and Environmental Science), 6 master degree subjects (Food Science and Engineering, Landscape Architecture, Horticulture, Ecology, Animal Husbandry, Agriculture Extension), and 5 doctoral degree subjects (Horticulture, Animal Science and Engineering, Food Science and Engineering, Ecology, Regional Planning and LA Design).

In the recent years, the school has established close relationships with more than 30 world-renowned universities. The co-operation agreements have been signed with Cornell University, Rutgers University, Purdue University (USA), Chiba University (Japan), University of Adelaide (Australia), Aarhus University (Denmark), The Hebrew University of Jerusalem (Israel) which include student exchange programs, 2+2 dual bachelor degree programs, joint PH.D programs, etc. So far, the school has established several national and governmental level research centers such as The New Rural Development Research Institute, Key Laboratory of Urban Agriculture, Shanghai Engineering and Technology Research Center of Food Safety, Shanghai Key Laboratory of Veterinary Biotechnology, Shanghai Urban Forest Research Station, etc. The overall international co-operations in SAB provides students and faculties a wide internationalized platform for academic and research.

## **Introduction of International Graduate Programs**

International Graduate Programs of SAB are specially designed for international students aiming to educate a new generation of international “high-end professionals” who are qualified with systematic knowledge and internationalized vision in research and academic communications.

### **1. Master & PhD Program in Food Safety and Nutrition (Taught in English)**

The program of Food Safety and Nutrition is specially designed for international students to fulfill the huge demand of the global market. It mainly includes the research fields of Food Safety and Microbiology, Food Chemistry and Nutrition, Food Processing and Preservation, etc. This program features internationalized training, interdisciplinary studies and practice and training combination. Graduates in this program can get deep insight into the food safety situation of Chinese and global market. They are expected to gain professional knowledge and innovative ability in food science and engineering and to be qualified with the vocational competence and operating capacity in the field.

#### **Curriculums:**

The program consists of a dynamic integration of professional courses and fieldwork, which benefits the formation of the internationalized vision, and also will help the students to master the world level technology management and the insight into Chinese market. To easily understand the language and culture of China, the program contains free Chinese Language and Culture courses for international students.



| NO. | Course Title  | Credit | Required/Elective |
|-----|---|--------|-------------------|
| 1   | Chinese   | 2      | Required          |
| 2   | Academic Writing  | 2      |                   |
| 3   | Chinese Culture   | 2      |                   |
| 4   | Symposium   | 2      |                   |
| 1   | Modern Control System for Food Safety                   | 2      | Elective          |
| 2   | Progress in Food Microbiology                           | 2      |                   |
| 3   | Advanced Food Chemistry                                 | 2      |                   |
| 4   | Modern Control System for Food Safety                   | 2      |                   |
| 5   | Molecular Food Nutrition                                | 2      |                   |
| 6   | Modern Technology on Food Preservation                  | 2      |                   |
| 7   | Food Quality and Safety Detection Technology            | 2      |                   |
| 8   | Bioinformatics  | 2      |                   |
| 9   | Progress on Food Biotechnology                          | 2      |                   |
| 10  | Advances in Modern Methods for Food Analysis            | 2      |                   |
| 11  | Food Engineering and Processing High and New Technology | 3      |                   |
| 12  | Modern Food Toxicology and Risk Assessment              | 2      |                   |
| 13  | Molecular Nutrition                                     | 2      |                   |
| 14  | Current Immunology                                      | 2      |                   |
| 15  | Eco-Environment and Food Safety                         | 2      |                   |
| 16  | Molecular Biology                                       | 2      |                   |
| 17  | Progress in Food Fermentation Technology                | 2      |                   |
| 18  | Food Separation Technique                               | 2      |                   |
| 19  | Development and Utilization of Novel Food Resources     | 2      |                   |
| 20  | Modern Instrument Analytical Technique                  | 2      |                   |

## 2. Master & PhD Program in Horticulture Landscape and Ecology (Taught in English)

This program is a characteristic subject of SJTU which includes research fields of olericulture, pomology, ornamental botany, facility agriculture, pollution ecology and habitat control, urban forest ecology, crop ecology and pest control, environment ecology and agricultural resources utilization, landscape design, ecological planning and design, etc. Graduate students are required to grasp basic theories and specific knowledge of the subject systematically and to get the insight into the forefront of the subject development. They are expected to be qualified with the competence of top talents in the field of Horticulture, Ecology Landscape Architecture.

Graduates of the subject can get one of Horticulture, Ecology or Landscape Architecture Master/Ph.D. Degree and they can work in related fields.



### Curriculums:

| NO. | Course Title (Chinese)                                   | Credit | Compulsory/Elective |
|-----|--|--------|---------------------|
| 1   | Chinese  | 2      | Required            |
| 2   | Academic Writing   | 2      |                     |
| 3   | Chinese Culture  | 2      |                     |
| 4   | Modern Ecology   | 2      |                     |
| 5   | The Chinese Garden Analysis                              | 2      | Elective            |
| 6   | Protected Horticulture: Science, Technology & Management | 2      |                     |
| 7   | Eco-Environment and Food Safety                          | 2      |                     |
| 8   | Ecological Planning Principle                            | 2      |                     |
| 9   | Molecular Biology  | 2      |                     |
| 10  | Plant Biotechnology                                      | 2      |                     |
| 11  | Bioinformatics   | 2      |                     |
| 12  | Research Methodology for Ecology                         | 2      |                     |
| 13  | Molecular Food Nutrition                                 | 2      |                     |
| 14  | Introduction of Rural Development in China               | 2      |                     |
| 15  | Modern Control System for Food Safety                    | 2      |                     |
| 16  | Modern Instrument Analytical Technique                   | 2      |                     |

### Requirements:

| Type   | Duration  | Credit | Journal paper |
|--------|---|--------|---------------|
| Master | 2 years<br>(1 year for coursework; 1 year for research) | 20     | ≥ 1           |
| Doctor | 4 years<br>(Research-based)                             | 16     | ≥ 1           |

### Timetable:

| Stage                  | Doctor     | Master     |
|------------------------|------------|------------|
| Mid-term Examination   | Semester 2 | Semester 2 |
| Thesis Proposal        | Semester 3 | Semester 3 |
| Medium-term Inspection | Semester 5 | Semester 3 |
| Pre Oral Defense       | Semester 7 | No         |
| Defense                | Semester 8 | Semester 4 |

### Requirements for dissertation:

The subject of dissertation is required to be of practice and theoretical value with correct experimental methods and data analysis in normative words and format.





## How to apply



**Application period:** December 1st, 2016 - May 31st, 2017

**Application website:** <http://isc.sjtu.edu.cn/EN/Default.aspx>

### Important Dates and Deadlines:

- Dec 01st, 2016: Start of application
- May 31st, 2017: Deadline for self-supported application
- Apr 30th, 2017: Deadline for Scholarship Type B/C/D
- Mar 31st, 2017: Deadline for Scholarship Type A

**Application Fee:** CNY 800 or USD 130 (CNY or USD only)

### Tuition & Housing Fees:

**Tuition:** CNY 28900/year for Master (≈USD 4670/ Year)

CNY 45500/Year for Doctor (≈USD 7350/Year)

**Housing:** CNY 50-150/Day on-campus (≈USD 8-25/ Day)

\*Tuition may differ for programs

### Scholarships:

- For Chinese Government Scholarship (Doctoral Program Type A1 and Master Program Type A), applicants must apply at both China Scholarship Council (CSC). (<http://laihua.csc.edu.cn>) and Study@SJTU (<http://apply.sjtu.edu.cn/>).
- Applicants are also encouraged to apply to China Scholarship Council through recommendations from Chinese Embassies, or relevant organizations in the home countries of the applicants between November and April (varies for different countries).
- For Shanghai Government Scholarship (Doctoral Program Type A2), applicants must apply at both Study in Shanghai (<http://www.study-shanghai.org>) and Study@SJTU
- For Type B, Type C and Type D applicants must apply through Study@SJTU



**Masters:**

| Type | Max Duration | Total Support   | Coverage   | Sponsor |
|------|--------------|-----------------|--|---------|
| A    | 2-3 Years    | RMB 80,100/Year | <ul style="list-style-type: none"> <li>● Monthly stipend (RMB 3,000/Month)</li> <li>● Tuition</li> <li>● health insurance</li> <li>● accommodation allowance.</li> </ul> | CSC     |
| B    | 2-3 Years    | RMB 64,500/Year | <ul style="list-style-type: none"> <li>● Monthly stipend (RMB 1,700/Month)</li> <li>● Tuition</li> <li>● health insurance</li> <li>● accommodation allowance.</li> </ul> | SJTU    |
| C    | 2-3 Years    | RMB 44,100/Year | <ul style="list-style-type: none"> <li>● Tuition</li> <li>● health insurance</li> <li>● accommodation allowance.</li> </ul>  | SJTU    |
| D    | 2-3 Years    | RMB 29,700/Year | <ul style="list-style-type: none"> <li>● Tuition</li> <li>● health insurance</li> </ul>  | SJTU    |

**Doctors:**

| Type | Max Duration | Total Support    | Coverage   | Sponsor                    |
|------|--------------|------------------|--|----------------------------|
| A    | 4 Years      | RMB 112,300/Year | <ul style="list-style-type: none"> <li>● Monthly stipend (RMB 4,000/Month)</li> <li>● Tuition</li> <li>● health insurance</li> <li>● accommodation allowance.</li> </ul> | CSC+SJTU<br>or<br>SGS+SJTU |
| B    | 4 Years      | RMB 94,300/Year  | <ul style="list-style-type: none"> <li>● Monthly stipend (RMB 2,500/Month)</li> <li>● Tuition</li> <li>● health insurance</li> <li>● accommodation allowance.</li> </ul> | SJTU                       |
| C    | 4 Years      | RMB 64,300/Year  | <ul style="list-style-type: none"> <li>● Tuition</li> <li>● health insurance</li> <li>● accommodation allowance.</li> </ul>  | SJTU                       |
| D    | 4 Years      | RMB 46,300/Year  | <ul style="list-style-type: none"> <li>● Tuition</li> <li>● health insurance</li> </ul>  | SJTU                       |

**Contacts:**

Address: 800 Dongchuan Road, School of Agriculture and Biology, Shanghai Jiao Tong University, Shanghai, 200240 China

Tel: +86-21-34205933

Coordinator: Lina Xia (Ms)

Email: xialina402@sjtu.edu.cn



### Quick Links:

Study@SJTU: <http://isc.sjtu.edu.cn/>

SJTU Graduate School: <http://en.gs.sjtu.edu.cn/>

Study in China: <http://www.csc.edu.cn/laihua/indexen.aspx>

