



西安交通大学  
XI'AN JIAOTONG UNIVERSITY

JIAOTON  
UNIVERSI

交通大学

2025

XI'AN JIAOTONG UNIVERSITY

## ENGLISH-TAUGHT INTERNATIONAL UNDERGRADUATE PROGRAM IN INTELLIGENT MANUFACTURING ENGINEERING

Xi'an Jiaotong University (XJTU), established in 1896, is a national key university directly administered by the Ministry of Education of China. It is one of China's top ten research universities and a member of C9 League—China's Ivy League. In 2013, XJTU was awarded by the Ministry of Education of China as the **"Demonstration Base for International Education"** due to its outstanding performance in international student education. It was ranked No. 10 on the 2024 Shanghai Ranking of Chinese Mainland.

Since 2021, Mechanical Engineering has RANKED FIRST GLOBALLY for three consecutive years in the Global Ranking of Academic Subjects (GRAS). XJTU also RANKED FIRST GLOBALLY in the 2024 U.S. NEWS Best Global Universities for Mechanical Engineering. Based on the strength of the Mechanical Engineering discipline, the university offers an English-taught international undergraduate program in Intelligent Manufacturing Engineering, aiming to cultivate professional, innovative, and top engineering and technological talents who possess capabilities of systematical thinking and cross-disciplinary integration. They will be adaptable to the emerging landscape of intelligent manufacturing.



## PROGRAM OVERVIEW

### 1. Objectives

In response to the manufacturing transformation trend characterized by "Industry 4.0", the program aims to cultivate top talents who possess a solid interdisciplinary foundation in both science and engineering. They will be proficient in utilizing emerging technologies such as artificial intelligence (AI), big data, and cloud computing to solve complex problems in intelligent manufacturing. These talents will be equipped to take on various roles in cross-cultural environments, including technical management, product research and development, and technological innovation.

### 2. Highlights

The length of program is 4 years and is divided into 4 stages.

**Stage I:** includes 2 semesters, students focus on liberal and foundational knowledge courses.

**Stage II:** includes 2 semesters, students mainly engage in basic subject courses.

**Stage III:** includes 2 semesters, students concentrate on specialized core courses along with practical training.

**Stage IV:** includes 2 semesters, students primarily

undertake their graduation project (Capstone Design).

### 3. Curriculum

#### Major Core Courses

- > **Foundational Knowledge Category:** Basic Mechanics; Thermal Energy and Fluid Mechanics, Electrical and Electronics, Programming and Computational Thinking, Finite Element Analysis, Fundamentals of Artificial Intelligence, Fundamentals of Big Data, Industrial Internet and Cloud Computing
- > **Basic Skills Category:** Engineering Drawing, Electrical and Electronic Experiments, Engineering skill training
- > **Professional Core Knowledge Category:** Design and Manufacturing I, Design and Manufacturing II, Forming and Additive Manufacturing, Automatic Control, Intelligent Sensing and Signal Processing, Fundamentals of Robot Techniques

In addition, the program also offers a variety of elective courses, including novel and special robots, special processing technology, intelligent operation and maintenance, new energy equipment, meta-materials, space manufacturing and other cutting-edge intersection directions.

## PROGRAM MAJORS

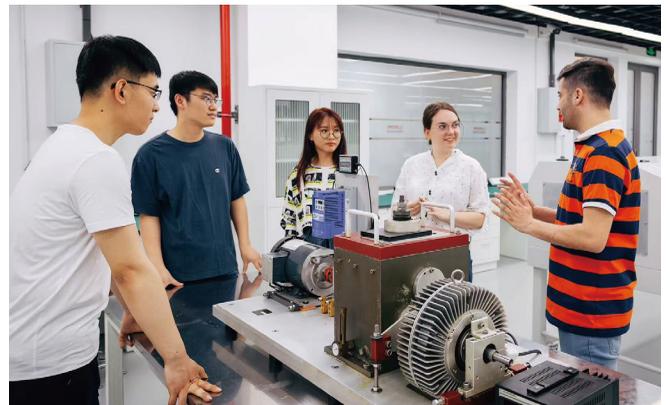
School	Program	Teaching Language	Duration	Type of degree awarded	Tuition Fees (RMB/Year)
School of Mechanical Engineering	Intelligent Manufacturing Engineering	English	4 years	Bachelor of Engineering	180,000

## ELIGIBILITY

- 18-25 years of age & with good health status, holding valid foreign ordinary passport;
- High school / senior secondary or advanced diploma (Applicants who are still in the last year of high school can provide the expected graduation certificate for applying while the official diploma must be provided before Sep 1st, 2025 upon enrollment);
- Language skills: Submit English proficiency certificate. IELTS 6.0 or TOEFL 80 or Duolingo English Test 110 (or above), or other equivalent English proficiency certificates recognized by our university are accepted. Native speakers of English can be exempted from the corresponding language proficiency certificate after being recognized by our university.
- Comply with the regulations of the Ministry of Education's document. [2020] No.12 and the relevant regulations of our university.

## APPLICATION DEADLINE

The Deadline to submit the online application is **May 31, 2025**



## CONTACT INFORMATION

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For more information, please scan the QR code below:

