

Teaching Assistants in the School of Internet of Things

Applications are invited for teaching assistant (TA) positions in the School of Internet of Things (IoT) at Xi'an Jiaotong-Liverpool University (XJTLU). The TA positions are open for all qualified interested graduate students (Masters and PhD students) on campus of XJTLU or other graduates in Suzhou. All applications will be considered by the recruiting panel which consists of two or more academic staffs in the Department.

TA duties include:

- **XJTLU Master's students, XJTLU PhD students, and postgraduate (Master's and PhD) students from other universities**
 - 1) Laboratory demonstration and support for practical work in the classroom
 - 2) Attendance on and support with field courses
 - 3) Group tutoring
 - 4) Scheduled office hours for one-to-one tutoring
 - 5) Invigilation of formal examinations and/or class tests
 - 6) Marking of formative assignments with appropriate training
 - 7) Other appropriate activities as determined by academic units
- **At the discretion of relevant academic units, XJTLU PhD students may be permitted to undertake the following additional responsibilities with appropriate training and guidance:**
 - 1) Delivery of occasional formal lectures and/or seminars within their area of expertise after having received appropriate training and initial supervision from their supervisor or the respective Module Leader. Such training might be provided by individual academic units, or the Education Development Unit (EDU). Relevant health and safety issues should be covered in this training.
 - 2) Assistance in marking of summative assessments with appropriate training and under the supervision of the module leader, subject to prior approval from the Head of the academic unit delivering the module. However, they must never act as the sole examiner on any summative assessment. All assessment tasks marked by

XJTLU PGR students must be moderated, and they are not permitted to act as moderators.

Modules include

- IOT001TC Introduction to AIoT through Hands-on Projects (Location: SIP campus)

Credits: 5

Number of TA needed: 1

Requirements: Basic computer/electrical engineering knowledge.

- IOT202TC Data Structure and Algorithms (Location: Taicang campus)

Credits: 5

Number of TA needed: 5

Requirements: The TAs should be graduate students located in TC campus, with background of Python programming, object-oriented programming, and algorithms.

- IOT210TC Computer Architecture and Operating Systems (Location: Taicang campus)

Credits: 5

Number of TA needed: 1

Requirements: Basic understanding of coding.

- IOT214TC Embedded System (Location: Taicang campus)

Credits: 2.5

Number of TA needed: 1

Requirements:

1. Solid foundational knowledge of embedded systems;
2. Proficient in C and MATLAB programming languages;



3. Experienced in circuit prototyping with ESP32 and STM32 boards.

- IOT309TC Information Security Technology of IoT (Location: Taicang campus)

Credits: 2.5

Number of TA needed: 1

Requirements:

1. The TA should have a good understanding of Internet of Things systems, basic networking, information security, and IoT-related vulnerabilities.
2. Knowledge of IoT security topics such as authentication, authorisation, confidentiality, data integrity, privacy, secure IoT architecture, threat modelling, and countermeasures would be highly desirable.
3. The TA should also be comfortable supporting practical laboratory activities, including the use of IoT devices, embedded systems, Raspberry Pi/ESP32 or similar platforms, basic Linux commands, Python programming, and simple security testing or simulation tools.
4. Familiarity with AI applications for identifying security risks, analysing vulnerabilities, or supporting IoT security solutions would be an advantage.
5. The TA is expected to assist with lab sessions, support students during hands-on activities, help answer technical questions, provide guidance on coursework-related tasks, and assist with marking or feedback where required.

- IOT314TC Signal Processing for IoT (Location: Taicang campus)

Credits: 5

Number of TA needed: 1

Requirements:

1. Good understanding of digital signal processing fundamentals.
2. Familiarity with MATLAB and/or Python for signal processing.
3. Basic knowledge of IoT systems, sensors, and embedded devices.



4. Understanding of signal processing techniques such as filtering, modulation, and feature extraction.
5. Basic knowledge of AI or machine learning for signal processing is an advantage.

Skills and Knowledge

- Proficient spoken and written English
- Excellent communication and interpersonal skills
- Excellent presentations skills, and skillful in Microsoft Office Software (Word, Excel, PowerPoint, etc.)
- Excellent organizational skills and attention to detail
- Be adaptable and open to change
- Previous TA working experience preferred

The pay rate for Academic Year 2026-27

- XJTLU PhD students: RMB 60/hour (before tax)
- XJTLU Master's students: RMB 50/hour (before tax)
- PhD and Master's students from other universities: RMB 50/hour (before tax)

How to apply

Applicants should submit their application to IOT@xjtlu.edu.cn by August 24th, 2026.

Applicants are required to provide their CVs and academic transcripts of previous studies.

For XJTLU students, please apply for TA positions through the Teaching Assistant Management System(TAMS) <https://ta.xjtlu.edu.cn> directly.