

JOB DESCRIPTION

Project Title: Dixon IoT Lab	
Job Code:	Budget Code: Dixon
Name of PI: Prof. Srikant Srinivasan	Reports to (Name): Prof. Srikant Srinivasan
Term/Duration (in Months) *: 12 months	Approved By (PI Sign):

ROLE: Lab Technician – IoT Laboratory

BRIEF DESCRIPTION OF THE ROLE:

The Lab Technician will support the day-to-day operations, maintenance, and technical activities of the IoT Lab. The role involves assisting in hardware setup, troubleshooting embedded systems, maintaining laboratory equipment, and supporting students and researchers in experimental and prototyping activities.

The candidate is expected to ensure smooth lab functioning, safety compliance, and inventory management of electronic components and devices.

RESPONSIBILITIES:

- Assist in setup, testing, and maintenance of IoT hardware systems (microcontrollers, sensors, communication modules).
- Support hardware prototyping, PCB soldering, and circuit assembly.
- Maintain lab equipment including oscilloscopes, power supplies, multimeters, and development boards.
- Ensure proper documentation of lab assets, consumables, and equipment inventory.
- Provide technical assistance to students and research staff during lab sessions and projects.
- Support installation and configuration of IoT nodes and related systems. And
- Coordinate with vendors for procurement, repairs, and servicing lab equipment.

- Ensure adherence to lab safety protocols and SOPs.

EXPERIENCE & EDUCATION QUALIFICATION:

- Diploma in Electronics / Electrical Engineering / Instrumentation / Embedded Systems or related field.
- 1–3 years of hands-on experience in electronics lab support, hardware troubleshooting, or IoT-based systems (preferred).
- Experience in soldering, PCB handling, and basic embedded system setup.

SKILLS:

- Basic understanding of microcontrollers (e.g., Arduino, ESP32, Raspberry Pi).
- Knowledge of sensors, actuators, and communication protocols (I2C, SPI, UART, Wi-Fi, LoRa, etc.).
- Hands-on skills in circuit assembly, PCB soldering, and hardware debugging.
- Familiarity with lab instruments such as oscilloscopes, multimeters, power supplies, and signal generators.
- Inventory management skills, including tracking lab consumables, maintaining stock registers, and forecasting component requirements.
- Experience in asset tagging, documentation, and maintaining equipment logs.
- Basic procurement coordination and vendor communication skills.
- Ability to maintain lab safety standards and follow SOPs.
- Basic computer proficiency (MS Office, spreadsheets for inventory tracking, documentation).
- Strong organizational skills and attention to detail.
- Good coordination and communication abilities to support students and researchers effectively.

LOCATION:

Plaksha University
Mohali