

## Qualification & Requirements – IDEA Lab Technical Officer (AICTE IDEA Lab)

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### **Educational Qualification (Minimum):**

✓ Diploma in Engineering (Electrical\* / Electronics\* / Mechanical or related disciplines)

**OR**

### **Preferred / Higher Qualification:**

✓ B.E. / B.Tech. In a relevant engineering discipline

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### **Experience:**

- **1–3 years** of experience in a laboratory, engineering workshop, prototyping setup, or technical equipment handling is preferred
  - **Fresher's with strong technical aptitude and hands-on skills may also be considered**
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### **Desired Technical Skills:**

- Experience in **PCB fabrication, soldering, and use of electronic lab instruments**
  - Familiarity with **Embedded Systems** (Arduino, Raspberry Pi, ESP32, NodeMCU, etc.)
  - Understanding of **PCB design tools** (KiCad, Eagle, Altium, EasyEDA, etc.)
  - Basic knowledge of **programming** (Python, C/C++, IoT frameworks preferred)
  - Exposure to **laser cutting, rapid prototyping, and fabrication tools** (optional but desirable)
  - Ability to operate, calibrate, and troubleshoot **lab tools, CNC machines, and equipment**
  - Knowledge and hands-on skills in **3D Printing and Additive Manufacturing**
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### **Other Requirements:**

- Strong **technical problem-solving** and troubleshooting ability
- Good **communication skills** and ability to guide students during lab sessions
- Willingness to support **workshops, innovation projects, hackathons, and training programs**
- Ability to maintain **lab safety protocols, equipment documentation, calibration records, and consumables inventory**
- Ability to work collaboratively with **faculty, students, start-ups, and innovation teams**
- **Adaptability to learn new tools, emerging technologies, and equipment as required**
- **Time management skills** and ability to support multiple activities running in parallel
- **Professional attitude, discipline, and responsibility** in managing lab operations

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