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खंडवा रोड, सिमरोल, इन्दौर – 453 552, मध्य प्रदेश, भारत
IITI DRISHTI CPS Foundation, Indian Institute of Technology Indore
Khandwa Road, Simrol, Indore - 453 552, Madhya Pradesh, India
CIN: U73100MP2020NPL054322

**IITI DRISHTI CPS FOUNDATION**
**(A Section 8 - Not for Profit Company)**

Advt. No. – IITI-DRISHTI-CPS/Sec-8/2026/27 Date: 18th August 2026

IITI DRISHTI CPS Foundation is a Technology Translation Research Park (TTRP) hosted at IIT Indore and supported by the Department of Science & Technology (DST), Government of India. The Foundation focuses on Digital Healthcare, Cyber-Physical Systems (CPS), system simulation & modelling, and the commercialisation of deep-tech innovations. One of our flagship platforms is CharakDT, a rapidly evolving Digital Health and Clinical Decision Support ecosystem. More details about the company are available at: https://drishticps.org/

**Job Title**: Electronic Hardware Design Intern – Analog & Digital Electronics
**Job Location**: IIT Indore (Onsite)
**Duration:** 89 Days
**No. of Positions:** 3

**Job Summary:**

IITI DRISHTI CPS Foundation is seeking motivated Electronic Hardware Design Interns (Analogue and Digital Electronic Circuit Design) to join our team. In this role, you will work on designing, prototyping, and testing sensor signal conditioning circuits integrated with microcontrollers and wireless communication modules for medical devices.
**Domain:** Medical electronics and instrumentation

**Roles and Responsibilities:**

- Analog Circuit Design: Design and test signal conditioning circuits (operational amplifiers, instrumentation amplifiers, filtering, ADC interfacing) for biomedical/sensor data acquisition.
- Digital & MCU Interfacing: Interface sensors with microcontrollers (e.g., ESP32, Arduino) via standard protocols (I2C, SPI, UART, ADC).
- Wireless & IoT Integration: Implement basic wireless communication using Wi-Fi / Bluetooth modules (e.g., ESP32) for data transmission.
- PCB Schematic & Layout: Assist in schematic capture, component selection, and basic PCB layout using tools like KiCad, Altium Designer, or Eagle.
- Bench Testing & Debugging: Perform hardware testing, signal integrity checks, power management and optimisation, and debugging using oscilloscopes, a multimeter, and a logic analyzer.
- Documentation: Maintain clear documentation of circuit schematics, test results, and hardware design specifications.

**Required Skills:**

- Analog Electronics: Sound understanding of op-amps, active filters, noise reduction techniques, and analog-to-digital conversion.
- Embedded & IoT Experience: Hands-on experience with microcontrollers and IoT/Wi-Fi modules (ESP32, Arduino platform), also knowing communication protocols.
- Lab Equipment Skills: Practical experience using laboratory tools (Oscilloscope, Function Generator, Digital Multimeter, Soldering Station).
- Mindset: Strong problem-solving skills, willingness to learn hardware iteration cycles, and a desire to contribute to real-world biomedical deep-tech products.

**Qualifications & Experience:**

**Education**: Currently pursuing or recently completed B.E. / B. Tech / M.E. / M. Tech in Electronics & Communication Engineering (ECE), Electrical and Electronics Engineering (EEE), Electronics & Instrumentation (E & I), Mechatronics, Biomedical Engineering, or related disciplines.

**What You Will Gain:**

- Real-World Impact: Opportunity to contribute directly to deep-tech medical devices and healthcare platforms like CharakDT.
- Mentorship: Work under the guidance of experienced Principal Engineer, Scientific Officers, Technology Translation Research Fellows, and Embedded-system engineers.
- State-of-the-Art Facilities: Access to prototyping and testing labs at IIT Indore.

**Compensation:** As per the recommendation of the selection committee.
**Certification:** Internship completion certificate from IITI DRISHTI CPS Foundation.

Interested candidates may click here to submit the application.

Only shortlisted candidates will be called for a written test/interaction/interview. Mere fulfillment of the eligibility criteria does not entitle an applicant to be shortlisted. All the applications will be thoroughly evaluated for suitability with the company's requirements. The company reserves the right to not fill up /cancel the post advertised without assigning any reason. In the case of selection, the role will be finalized by the selection panel and the decision will be binding. The position is contractual, full-time in nature and subject to periodic performance reviews.