आईआईटीआई दृष्टि सीपीएस फाउंडेशन, भारतीय प्रौद्योगिकी संस्थान इन्दौर
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-8/2026/33 Date: 17th November 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: Product Design Engineer
Job Location: IIT Indore
No. of Positions: 1

Job Summary:

The Product Design Engineer will be responsible for leading and supporting the design, development and engineering of innovative products and solutions, particularly in the domain of Digital Healthcare and Cyber-Physical Systems. The role involves translating research concepts and product ideas into functional prototypes and production-ready solutions through systematic product design, engineering, testing and development processes.

The selected candidate will contribute to the development of healthcare technologies, medical devices, integrated hardware-software solutions and other technology-driven products, taking them from proof of concept to final production. The position will also involve leading the product design team, coordinating with multidisciplinary research and technical teams, and supporting technology development and translation activities. In addition, the candidate will be involved in teaching postgraduate students and conducting tutorials and workshops related to product design and development.

Roles and Responsibilities

- Lead and undertake product design and development activities, translating research concepts, innovative ideas and requirements into practical product designs and functional prototypes.
- Drive the complete product development lifecycle, from concept development, feasibility assessment and proof of concept to detailed design, prototyping, testing and final production.
- Develop product designs, engineering specifications, technical drawings, 3D models and other documentation required for product development and manufacturing.
- Work on the design and development of digital healthcare products, medical devices, healthcare equipment and integrated technology solutions.
- Collaborate with AI/ML developers, electronics engineers, software developers, researchers and clinical professionals to develop multidisciplinary healthcare solutions.
- Evaluate product functionality, usability, design feasibility, performance and manufacturability through iterative development and testing.
- Identify suitable materials, manufacturing processes, components and production methodologies for product development.
- Ensure that product designs are aligned with technical specifications, project requirements, quality standards and defined development timelines.
- Coordinate with manufacturing partners, technical experts and industry stakeholders for product fabrication, testing, refinement and production.
- Prepare detailed technical documentation, product specifications, design records, manufacturing documentation and know-how transfer documents.
- Lead and coordinate the product design team, ensuring effective task allocation, timely execution and achievement of project deliverables.
- Contribute to research, technology development, technology translation and commercialisation-related activities of the Foundation.
- Teach postgraduate students and conduct tutorials, practical sessions and workshops related to product design, development and engineering assignments.

Key Required Skills & Competencies

- Strong understanding of product design, engineering design and product development methodologies.
- Experience in taking products from concept development and proof of concept to functional prototypes and production models.
- Knowledge of CAD modelling, 3D design, engineering drawings and product documentation.
- Familiarity with manufacturing processes, fabrication techniques, materials and production practices.

- Ability to evaluate product feasibility, functionality, usability and manufacturability.
- Understanding of product testing, design verification, validation and quality assessment.
- Ability to work with multidisciplinary teams involving electronics, software, AI/ML and healthcare professionals.
- Strong problem-solving, analytical, project management and team leadership skills.
- Ability to independently manage product development activities and deliver time-bound outcomes.
- Good technical documentation, communication and presentation skills.

Qualifications & Experience

- Postgraduate degree with specialisation in Product Design and Development.
- Minimum 5 years of professional experience in product design and development.
- Demonstrated experience in developing products from concept or proof of concept to final production models.

Additional Requirements or Preferences

- Experience in digital healthcare, medical devices, healthcare equipment or technology-driven product development will be preferred.
- Exposure to interdisciplinary research and development projects involving hardware, software and integrated technology solutions will be an advantage.
- Experience in working with research institutions, technology development centres, manufacturing industries or innovation-driven organisations will be desirable.
- Ability to lead the product design team and manage multiple project deliverables within defined timelines.
- Willingness to contribute to postgraduate teaching, student mentoring, tutorials and technical workshops

Compensation: As per Industry Standards.

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.