



**ADVERTISEMENT
FOR
TECHNICAL EXECUTIVE
IIT MANDI IHUB AND HCl FOUNDATION
A Section – 8 Company Location
– IIT Mandi Campus**

About IIT Mandi iHub and HCl Foundation: **About iHub:** IIT Mandi iHub and HCl Foundation (iHub) is a section 8 company established under the National Mission on Interdisciplinary Cyber- Physical Systems (NM-ICPS). The focus area of IIT Mandi iHub is “**Human-Computer Interaction.**” The vision of the iHub is to be an internationally recognized hub that nurtures HCl research, enables technology translation for industry, and scales skill development. The four areas of IIT Mandi iHub are Research and Technology Development, Skill Development, Incubation & Acceleration, and Collaboration. For more information, visit www.ihubiitmandi.in.

Applications are invited for the Position of Technical Executive

Apply Here: <https://form.typeform.com/to/E2RZsjg5>

The Role

We are looking for a motivated professional to support research, development, and deployment of intelligent robotic systems, AI/ML solutions, and cross-platform mobile applications. The candidate will contribute to designing, developing, testing, and integrating software and hardware components for robotics and AI-driven applications while collaborating with multidisciplinary teams.

Responsibilities:

- Design, develop, and maintain robotic software applications using ROS/ROS 2.
- Develop AI/ML models for perception, computer vision, sensor fusion, speech processing, and autonomous decision-making.
- Implement and optimize deep learning models using frameworks such as TensorFlow or PyTorch.
- Develop mobile applications (Android, iOS, or Flutter) for robot control, monitoring, and data visualization.
- Integrate robots with mobile applications, cloud platforms, REST APIs, and IoT systems.
- Work with robotic sensors including RGB cameras, depth cameras, LiDAR, IMU, GPS, and other embedded devices.
- Develop software for autonomous navigation, SLAM, motion planning, manipulation, and human-robot interaction.
- Create simulation environments using Gazebo, Isaac Sim, Unity, or similar tools.
- Perform data collection, preprocessing, annotation, model training, evaluation, and deployment.
- Debug software and hardware issues, optimize system performance, and maintain technical documentation.
- Collaborate with researchers and engineers to develop innovative robotics and AI solutions.
- Support demonstrations, field deployments, and technical workshops.

Qualification:

- Bachelor's or Master's degree in Computer Science, Robotics, Artificial Intelligence, Electronics, Electrical Engineering, Mechatronics, or a related field.
- Strong programming skills in Python, C++ and Dart.
- Knowledge of AI/ML algorithms and deep learning techniques.
- Experience with TensorFlow, PyTorch, or similar frameworks.
- Knowledge of computer vision using OpenCV.
- Experience in Flutter or native Android/iOS application development.
- Familiarity with Git and software development best practices.

Position	Qualification	Years of Experience
Technical Executive	Bachelor's or Master's degree in Computer Science, Robotics, Artificial Intelligence, Electronics, Electrical Engineering, Mechatronics, or a related field.	0-2 years

Desirable Experience & Skills:

- Experience with NVIDIA Isaac Sim, OpenUSD, Omniverse, or Digital Twin technologies.
- Knowledge of Embedded Systems, Raspberry Pi, NVIDIA Jetson, or microcontrollers.
- Experience with Docker, Kubernetes, or cloud deployment.
- Knowledge of reinforcement learning and embodied AI.
- Familiarity with robotic manipulators, humanoid robots, or autonomous mobile robots.

Remuneration:

Position	Remuneration
Technical Executive	Up to INR 25,000/- per month based on experience.

Terms/Instructions:

1. Only shortlisted candidates will be contacted/informed through email/phone.
2. IIT Mandi iHub and HCi Foundation reserves the right to fill up the post, not to fill up the position or cancel the advertisement in whole or part without assigning any reason. The company also reserves the right to limit the number of candidates to be called for written tests/or interviews. The decision of the company in this regard will be final.
3. Documentary evidence of all educational and professional qualifications will be required to be produced when specified.
4. The company can verify the antecedents or documents submitted by a candidate before the appointment, at the time of appointment, or during the tenure of the service. In case it is detected that the documents submitted by the candidates are fake or the candidate has clandestine antecedents/background and has suppressed the said information, then their services shall be terminated.
5. If it is found later that any information given in the application is incorrect/false, the candidature/appointment is liable to be cancelled/terminated.
6. **The applications will be considered till the post is filled.**

Contact us: IIT Mandi iHub and HCl Foundation, IIT Mandi, North Campus, Kamand, District Mandi, Himachal Pradesh 175005

Email: hr@ihubiitmandi.in

Website: www.ihubiitmandi.in

Note: All applications should be routed through the application link provided for each position in the advertisement. Email us only in case of questions