



IIT Mandi iHub & HcI Foundation
Technology in Harmony with Human Needs

**ADVERTISEMENT
FOR
POST-DOCTORAL FELLOWSHIP
AT
IIT MANDI IHUB AND HcI FOUNDATION
A Section – 8 Company
Location – IIT Mandi Campus**

About IIT Mandi iHub and HcI Foundation: **About iHub:** IIT Mandi iHub and HcI 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 HcI 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 Postdoctoral Fellowship

No of Positions: 04

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

The Role

We are seeking candidates for the role of Postdoctoral Fellows to be affiliated with IIT Mandi iHub HcI Foundation, with a focus on multimodal AI research and innovation. Fellows will actively contribute to cutting-edge projects and strategic initiatives, particularly in areas that involve processing and fusing multiple data modalities (e.g., text, vision, audio, sensor data) for impactful applications. This role emphasizes translational research, aiming to develop solutions with real-world relevance.

Postdoctoral fellows are expected to specialize in one or more of the following areas related to multimodal technology, though not limited to:

Areas:

- Foundational Principles in Multimodal Research, like Heterogeneity, Connections and Interactions,
- Multimodal Representation with focus on cross-modal relationship, deployment experience with contemporary deep learning frameworks, such as multimodal foundational models, graph-neutral networks, agentic AI etc.
- Multimodal Integration like audio-visual, neuroimaging, and psychological data recording
- Experiment design with Human data collection, task-based and resting state designs.
- Multimodal Reasoning,
- Multimodal Generation
- Multimodal electrophysiological signal detection and estimation, experience with bio-signals acquisition and analysis.

- Multimodal AI-driven solutions across various industries, including Smart and Intelligent Healthcare, Smart Environments, Autonomous Vehicles, Agritech, and Security.
- End-to-end multimodal systems that integrate textual, visual, auditory, and other sensor data streams.

Responsibilities:

- Empirical user studies evaluating the usability and impact of multimodal systems.
- Interdisciplinary Collaboration with teams comprising data scientists, AI developers, designers, domain experts, and engineers
- Research Leadership through ideation, proposal writing, and dissemination of research outcomes in reputed venues
- Industry-Oriented Research addressing domain-specific challenges through applied multimodal solutions
- Mentorship of undergraduate and graduate students, as well as research interns, to foster academic and professional growth.
- IP Development by contributing to the creation and protection of novel research outputs.
- Continuous Learning in cutting-edge topics such as foundational models, transformers, and self-supervised learning across modalities

Essential Qualification:

- Ph.D. in Multimodal AI, Computer Vision, Natural Language Processing, Speech Processing, Machine Learning, Sensor Integration and Multi Modal Fusion or related fields.
- Demonstrated experience in working with at least two modalities (e.g., vision + language, audio + text) with hand-on experience in well-known multimodal foundation models like (eg .Gato from DeepMind , Image Bind from Meta)
- Strong programming (Python, MATLAB or LABVIEW) and model implementation or API developing skills using tools like PyTorch, TensorFlow, etc.
- Hands-on experience with large-scale models such as CLIP, BLIP, LLaVA, Whisper, GPT, Vision Transformers, GNN, time-series models, and equivalents.
- GATE/GPAT/NET or equivalent qualification is mandatory.
- Consistently good academic record with CGPA ≥ 7.0 throughout.
- Age: Preferably below 35 years. Age relaxation for exceptional candidates.

Workplace: IIT Mandi iHub Hci Foundation in IIT Mandi Campus.

Duration and continuation: The fellowship will be awarded for one year, with the possibility of extension based on performance. An internal review committee will evaluate the fellow at regular intervals.

Remuneration:

Particulars	Monthly
Fellowship	INR 70,000/- INR 80,000 per month based on experience
Contingency Grant	INR 15,000/- (Rupees Fifteen Thousand only) per month.

Terms/Instructions:

1. Only shortlisted candidates will be contacted/informed through email/phone.
2. IIT Mandi iHub and HCl 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.**
7. Interviews would be conducted in online/ offline mode, where there may be multiple rounds of interviews.
8. The decision of the selection committee regarding the interview logistics and selection process for the post will be final. The selection committee reserves the right to fill or not fill the advertised post. For any additional clarifications/information.

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.