



IIT Mandi iHub & HCI Foundation

A Section 8 Not-for-Profit Company
Technology Innovation Hub (TIH) in Human-Computer Interaction (HCI)

Call for Faculty Fellowship

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 vision of iHub is “To be an internationally recognized hub that nurtures HCI research, enables technology translation for industry, and scale skill development”. For more information, visit www.ihubiitmandi.in

Job profile: The iHub faculty fellow would be called the “iHub Fellow,” and the Fellow would be affiliated for the duration of the fellowship with iHub at the Indian Institute of Technology (IIT) Mandi. The Fellow is expected to pursue research in the area of HCI at the iHub. Potential activities that the Faculty Fellow may engage in at the iHub would include:

- The iHub Faculty Fellow is expected to do research and technology development at the iHub in areas related to “Human-Computer Interaction (HCI), Computer Science, Industrial Design, Cognitive Science, and Multisensory Applications”.
- Human-Computer Interaction addresses the sub-areas of Assistive Technologies, Experience Technologies, and Device-led Technologies.
- The research should have relevance to address to need of the specific industries.
- To develop technology for industrial adoption covering industries namely Healthcare, Automobile Manufacturing, Defence & Security, Environment & Agriculture, and Information Technology.
- Participating in grant writing and proposal development for internal and external funding opportunities.

Joining date: As soon as possible.

Number of Fellowship: Three

Essential Qualifications:

1. The candidate should have two years of experience post-completion of the Ph.D. This experience is expected to be in industry or academia in Human-Computer Interaction (HCI), Computer Science, Industrial Design, Cognitive Science, and Multisensory Applications.
2. Age limit: Preferably less than 35 years. Age will not be a bar for exceptionally qualified candidates.
3. The nationality of the candidate is not a constraint.
4. Demonstrate excellence in research through technology development, patents, and publications in top-tier journals/conferences.
5. The overall CGPA of the applicant should be greater than or equal to 7.0
6. Candidate must be qualified for GATE/GPAT/ NET or equivalent examination.



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Financial support:

- An attractive monthly fellowship (INR 1,00,000 - INR 1,50,000).
- A one-time contingency/research grant of up to INR 2,00,000

Duration and continuation:

The fellowship may last one year to 1.5 years and extend beyond this period for another period based on performance. The fellow will be evaluated at regular intervals by an internal review committee.

Project Area: The project proposals are invited from any of the two technology areas mentioned below.

TIH – HCI Domain: Project proposals for the Fellowship must be in the broad area of HCI and the area of its industrial applications.

Technology Areas:

- Industrial Design/Usability Engineering
- Computer Vision
- Image Processing
- Cognitive Modelling
- Artificial intelligence and Machine learning
- Natural language processing (NLP)
- Augmented reality (AR) and Virtual Reality (VR)

Industry Areas:

- Defence & Security
- Healthcare
- Environment & Agriculture
- Information Technology.

Functional Areas:

- Assistive Technologies.
- Experience Technologies.
- Device-led Technologies.

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

Please structure your proposal, not exceeding four pages, in the following format:

1. Vision/Problem Description
2. Proposed Solution/Product
3. Literature review/Market Research



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4. Methodology
5. Expected Deliverables
6. Industry Adoption
7. Timelines
8. References

While applying for this position, candidates should submit the proposals with at least one application area in mind or a combination of application areas with an eye for industry adoption, as mentioned above.

Your submission would be covering:

- Any research problem leads to papers, patents, products/solutions, or IP creation in the next 1-1.5 years.
- Any novel, low-cost applications using off-the-shelf devices/products that you can think of for massive niche usage in the applications areas
- Any hardware/software product

Benefits of the Fellowship program:

- Such Fellows should be treated as independent researchers, and the received research grant will be considered a project fund at iHub.
- The Fellows are independent to work and spend their research grant according to the guidelines of the iHub. The iHub rules would be followed for purchases from the research grant.
- The Fellows would follow the policies of the iHub for making purchases from their project(s) /Research grant.
- The Fellows would be hired by iHub directly and would be required to work on research and other activities of the iHub only.
- The facilities of IIT Mandi would be available to the fellow after the request is moved via a proper channel (involving the Project Director/CEO and the Directors of the iHub), and approval is obtained on this request.

Candidates meeting the qualifications and experience may submit their details, CV, and proposal online via the following link: <https://forms.gle/CbiE1tCASYKaC9A5A>

Interviews would be conducted in online mode, where there may be multiple rounds of interviews. The date and time of the interview and the online link will be shared by email with candidates before the interviews.

The selection committee's decision 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, please contact: tih@ihubiitmandi.in