IIT Mandi iHub & HCI Foundation

Section 8 Not-for-Profit Company

Technology Innovation Hub (TIH) in Human-Computer Interaction (HCI)

Regd. Office: Indian Institute of Technology Mandi, VPO Kamand, Mandi, Himachal Pradesh, India – 175075

Call for Post-Doctoral Fellowships

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 post-doctoral fellow would be affiliated for the duration of the fellowship at the Indian Institute of Technology (IIT) Mandi. The fellow would pursue research at the iHub. Potential activities that the post-doctoral faculty fellow may engage in at the iHub may include:

- The iHub post-doc 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".
- To develop technologies for industrial adoption like
    1. Assistive technologies to cover health (mental and physical)
    2. Experience technologies covering entertainment, and gaming visualization.
    3. Device-based technologies covering IOT, social robots, and cognitive robots.
- Conduct user research to understand customer needs and pain points.
- Designing and prototyping interactive systems, products, or services.
- Evaluating the usability and effectiveness of interactive systems, products, or services.
- Presenting research findings and recommendations to internal stakeholders.
- Collaborating with cross-functional teams such as product development, engineering, and design.
- Mentoring junior researchers or interns.
- Participating in grant writing and proposal development for internal and external funding opportunities
- Contributing to the development of intellectual property.
- Keeping abreast with the latest developments and trends in the field of HCI and assessing their potential impact on the company.

Joining date: As soon as possible.

Number of Fellowship: Six

Essential Qualifications:

- A Ph.D. in a related field such as "Human-Computer Interaction (HCI), Computer Science, Industrial Design, Cognitive Science, and Multisensory Applications".

Workplace: IIT Mandi iHub and HCI Foundation Office, North Campus, IIT Mandi, VPO Kamand, District Mandi, Himachal Pradesh - 175075

Email: tih@iitmandi.ac.in **| Website:** https://www.ihubiitmandi.in **| CIN:** U73100HP2020NPL008102

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- Strong programming and data analysis skills, and experience with specific HCI-related tools and technologies, such as user research software, design tools, and programming languages.

- Age limit: Preferably less than 35 years. Age will not be a bar for exceptionally qualified candidates.

- The nationality of the candidate is not a constraint.

- Candidate must be qualified for GATE/GPAT/ NET or equivalent examination.

- The CGPA of the applicant should be greater than or equal to 7.5 throughout your academic.

Financial support:

- An attractive monthly Fellowship (INR 70,000 - INR 85,000).

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)
- Social Robotics

Industry Areas:

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

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Functional Areas:

- Assistive Technologies
- Experience Technologies
- Device-led Technologies
- Generative AI

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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
4. Methodology
5. Expected Deliverables
6. Possible Industry Application
7. Timelines
8. References – You can provide specific references (could be on the 5th page).

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

What can you submit?

- 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.

Candidates meeting the qualifications and experience may submit their details, CV, and proposal online via the following link: https://forms.gle/BwGHGqZFgQjC1L5s6 Interviews will be conducted 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: hr@ihubiitmandi.in

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