

## Centre for Human Computer Interaction

### Call for Ph.D., M. Tech (by research) and M.Tech.(R)+Ph.D. (Dual Degree) Program (AY 2024-25)

IIT Mandi has established a Center for Human Computer Interaction and invites applications from bright and dedicated young scholars interested in joining the full-time or part-time Ph.D., M. Tech (by research) and M.Tech.(R)+Ph.D. (Dual Degree) in the **Centre for Human Computer Interaction (CHCI)** under *Assistive Technologies, Experiential Technologies, Device Technologies, Large Language Model*. For this purpose, CHCI seeks applications for the Doctor of Philosophy (Ph.D.), Master of Technology (by research) & Master of Technology (by research)+Doctor of Philosophy (Ph.D.) (dual degree) programs in the following areas of :

Individual Specializations under CHCI	Specific Areas (but not limited to)
<i>Assistive Technologies</i>	<ul style="list-style-type: none"><li>AI, HCI, and Cognitive Science</li><li>Healthcare</li></ul>
<i>Experiential Technologies</i>	<ul style="list-style-type: none"><li>AR, VR</li></ul>
<i>Device Technologies</i>	<ul style="list-style-type: none"><li>Smart EM Sensing and Microwave imaging for Biomedical applications</li><li>Devices for neuro diagnosis and neuro therapeutics</li><li>Embedded system for HCI</li><li>Material &amp; Devices for Edge-Computing &amp; Internet of Things (IoT) Applications</li><li>EM sensors and Intelligent reflective surface</li><li>Memristor based resistive switching devices for Neuromorphic applications</li></ul>
<i>Large Language Model</i>	<ul style="list-style-type: none"><li>Deep Learning/AI/ML based numerical methods in the area of HCI,</li><li>Deep Learning/AI/ML based image processing in the area of HCI</li></ul>

#### How to Apply:

Interested candidates are encouraged to fill the online application form available in the following link:

#### Link to the online application:

<https://iitmandiadm.samarth.edu.in/2024/index.php/>

## General Information

Information on eligibility, minimum qualifications, and scholarship rules are briefly provided in the following pages of this document. The same can be found at the following links

M. Tech (by research) /PhD Ordinance and Regulations (O&R) IIT Mandi:

[https://www.iitmandi.ac.in/pdf/ordinances/Ordinances\\_phd\\_mtech.pdf](https://www.iitmandi.ac.in/pdf/ordinances/Ordinances_phd_mtech.pdf)

<b>For PhD applicants (Full-Time Research Scholars)</b>	<p>Students under this category are entitled to the Scholarship/ Assistantship from Institute / MoE if they qualify for any one of the following criteria.</p> <ul style="list-style-type: none"><li>● Master's degree in Sciences/ Engineering/ Technology with a good academic record. <b>OR</b></li><li>● Bachelor's degree holder in Engineering/ Technology from any CFTIs with a minimum CGPA of 7.5 on a 10.0-point scale. <b>OR</b></li><li>● Bachelor's degree holder in Engineering/ Technology from any Non CFTIs with at least CGPA of 7.5 on a 10.0-point scale with valid GATE score. <b>OR</b></li><li>● B.Tech. / B.E.(or equivalent) degree from any of the top 100 Institutes according to NIRF ranking (overall category) at the time of application with a CGPA /GPI of at least 7.5 (on a scale of 10) or equivalent. <b>OR</b></li><li>● B Tech/ BE (or equivalent) degree from any Himachal Pradesh Govt. Institute or universities with CGPA /GPI of at least 7.5 (on a scale of 10) or equivalent.</li></ul>
<b>PART TIME RESEARCH SCHOLARS (for Ph.D.)</b>	<ul style="list-style-type: none"><li>● Institute Staff Members/Research scholars under QIP/Research Scholars under External Registration/Research Scholars working on Part Time Basis.</li><li>● Individuals employed in R&amp;D environments in Scientific Institutions (including IIT Mandi) or industries.</li><li>● Faculty members of all Engineering Colleges/Universities recognized by appropriate government agencies.</li></ul> <p>The required qualification remains the same as for the regular candidates except for the requirement of qualifying in one of the national entrance tests. Further the candidate should have at least two years of work experience.</p>
<b>For Masters applicants (Full- Time Research Scholars):</b>	<p>Students under this category are entitled for the Scholarship/ Assistantship from Institute / MoE if they qualify any one of the following criteria.</p> <ul style="list-style-type: none"><li>● Candidates with a Bachelor's Degree in Engineering/Technology or Master's Degree in appropriate Sciences. A valid GATE score is required for admission to the M. Tech (by research) program. <b>OR</b></li></ul>

	<ul style="list-style-type: none"> <li>• Candidate with B.Tech/BE degree from Centrally Funded Technical Institutes (CFTIs) with a minimum CGPA of 7.5 on a 10.0 point scale (or equivalent). (National Level examinations are waived off for HTRA Scholarship) <b>OR</b></li> <li>• B Tech/ BE (or equivalent) degree from any Himachal Pradesh Govt. Institute or universities with CGPA /GPI of at least 7.5 (on a scale of 10) or equivalent. <b>OR</b></li> <li>• B.Tech./ BE equivalent from any of the top 100 institutes according to NIRF ranking (overall category) at the time of application with in CGPA /GPI of at least 7.5 (on a scale of 10) or equivalent.</li> </ul>
<p><b>Part Time Research Scholars</b></p>	<ul style="list-style-type: none"> <li>• Institute Staff Members/Research Scholars under External Registration/Research Scholars working on Part Time Basis,</li> <li>• Individuals employed in R&amp;D environments in Scientific Institutions (including IIT Mandi) or industries and</li> <li>• Faculty members of all Engineering Colleges/Universities recognized by appropriate government agencies.</li> </ul> <p>The required qualification remains the same as for the regular candidates. Further the candidate should have atleast two years of work experience.</p>
<p><b><i>For Dual Degree (M.Tech (R) + Ph.D. applicants (Full-Time Research Scholars)</i></b></p>	<p>Students under this category are entitled to the Scholarship/ Assistantship from Institute / MoE if they qualify for any one of the following criteria.</p> <ul style="list-style-type: none"> <li>• The candidate must possess BE/B.Tech or M.Sc. or equivalent Degree with a valid GATE Score</li> <li>• GATE Score is waived off for candidates having B.Tech/BE degree from CFTI with CGPA <math>\geq 8</math>.</li> </ul>
<p><b>Exemptions from mandatory requirements of Valid GATE or National Level examination:</b></p> <ul style="list-style-type: none"> <li>• B.Tech/B.E./B.S. (or equivalent) degree from CFTI (Centrally Funded Technical Institute)/ any of the top 100 institutes according to NIRF ranking (overall category) at the time of application, with CGPA/CPI at least 7.5 (on a scale of 10) or equivalent</li> <li>• BS-MS/M.Sc/equivalent from IITs, IISERs, IISc, IIMs or any of the top 100 institutes according to NIRF ranking (overall category) at the time of application with a CGPA/CPI of at least 7.5 (on a scale of 10) or equivalent.</li> <li>• NIRF Ranking (within top 100) should be in the overall category granted for the year during which admission is sought.</li> <li>• Any Himachal Pradesh Govt. Institutions/Universities, with CGPA/CPI at least 7.5 (on a scale of 10) or equivalent.</li> </ul>	

**Note:** Industrial or Academic Institute Sponsored or Part-time M. Tech (by research)/PhD candidates are not eligible for MHRD/HTRA scholarships.

Employed candidates seeking admission to **M. Tech (by research)/PhD** must submit a “**No Objection Certificate**” from their current employer at the time of interview.

For any problems regarding filling of online applications, please contact [it\\_helpdesk@iitmandi.ac.in](mailto:it_helpdesk@iitmandi.ac.in)

For any other queries regarding M.Tech (R) and Ph.D., programs in CHCI, please contact the CHCI office through email [chcioffice@iitmandi.ac.in](mailto:chcioffice@iitmandi.ac.in). We look forward to reviewing your application.

**Application Fee for M. Tech (by research)/Ph.D. Admission:**

Category	Amount in ₹
General/EWS/OBC/OBC (NCL)/Transgender/Foreign Nationals	200
Women/SC/ST/PD	100

**Mode of Payment: SBI Collect Portal.**

**Important dates:**

Start of online application	26 March 2024
Deadline for online application	15 April 2024
Date of Interview (tentatively)	16-17 May 2024

**Mode of Interview:** The shortlisted candidate will be called for an interview. The interview will be online mode.

- Reservation policies as per prevailing GoI rules will be followed. IIT Mandi reserves the right to admit / not admit for any of the advertised areas.
- For each specialization and program, candidates should submit a separate application with the application fee.
- The decision of the competent authority in all matters relating to the eligibility of the candidate, written test/Interview and admission would be final and binding on all the candidates. In case of any dispute/ambiguity that may occur in the process of admission the decision of the Institute shall be final.
- All the details furnished in the online application will be treated as final and no changes shall be entertained. Non-submission of valid/required documents and/or incomplete application shall be summarily rejected.