



Centre for Artificial Intelligence and Robotics (CAIR)

Call for M. Tech (by research) / Ph.D. Program (Even Semester, 2022-2023)

IIT Mandi invites applications from bright and dedicated young scholars interested in joining the full-time or part-time M. Tech (by research)/Ph.D. program in the **Centre for Artificial Intelligence and Robotics (CAIR)**. For this purpose, CAIR seeks applications for the Master of Technology (M. Tech) by Research and Doctor of Philosophy (PhD) programs in the following areas of artificial intelligence (AI) and robotics:

Broad Research Area	Specific Areas (but not limited to)
Drones	<ul style="list-style-type: none">• Aerial manipulation• Autonomous navigation and control in GPS denied environment• Drone analytics• Energy management of Drones• Swarm Drones
Multi-robot systems	<ul style="list-style-type: none">• Visual Servoing• Robot learning• Swarm Robotics• Formation control• Collision Avoidance• Autonomous navigation
Robotics	<ul style="list-style-type: none">• Grasping and manipulation• Collaborative manipulation• Teleoperation• Legged Robotics• Marine Robotics
Cyber-Physical Systems (CPS) and Connected and Autonomous Vehicles (CAVs)	<ul style="list-style-type: none">• Driverless Cars• Cloud-Facilitated Control of CAVs• Optimal control of CAVs• Intelligent control in CPS

Link to the online application^{1, 2}:

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

<https://oas.iitmandi.ac.in/External/Admission/Login.aspx>

It is kindly advised to get in touch with faculty members directly for further information regarding the different research areas and positions available with them listed at

<https://research.iitmandi.ac.in/cair/faculty.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:

http://www.iitmandi.ac.in/academics/files/MS_PhD_Ordinance_and_Regulations.pdf

M. Tech (by research)/PhD scholarship Rules:

<https://www.iitmandi.ac.in/academics/scholarship.php>

For PhD applicants: To be eligible for an HTRA scholarship, the candidate must have qualified in national level exams like GATE, CSIR-NET, or equivalent at some point in their career. A valid score is, however, mandatory for admissions as listed under regulation R2.1.1 (b) and (c) of PhD O&R (see the above link).

For Masters applicants: A valid GATE score is required for admission to the M.Tech (by research) program, and for availing HTRA scholarship.

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-up up online applications, please contact oassupport@iitmandi.ac.in, Contact - 01905-267199.

For any other queries regarding M. Tech (by research)/Ph.D. programs in CAIR, please contact the CAIR office through email: cair_admissions@iitmandi.ac.in. We look forward to reviewing your application.

¹Upload self-attested documents as a single zip file (Proof of identity (Aadhar card/voter card/PAN card/any other), Class 10 certificate as proof of date of birth, Mark sheets of UG and PG degrees (rank certificate, if any), Qualifying certificate of the GATE/CSIR/UGC/other examination, Caste Certificate.)

²To apply for other specific areas not listed above, kindly fill “Others” in the specific area section after selecting the Broad Research Area on the OAS portal.

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 Payment³: SBI Collect Portal.

Mode of Payment: SBI Collect Portal. Applicant should submit fee on SBI collect portal of the IIT Mandi, and submit generated transaction number to the OAS admission application portal. One application fee is valid for the single application. The application fee is non-refundable. Applicant can choose the following steps on SBI Collect Portal to submit the application fee: -
State of Corporate / Institution *: Himachal Pradesh

Type of Corporate / Institution *: Educational Institutions

Educational Institutions Name *: IIT

Select Payment Category *: Application (Admission Fee)

Important dates:

Start of online application: January 01, 2023

Deadline for online application: January 20, 2023

Announcement of shortlisted candidates: January 23, 2023

Interview (tentatively-online): January 27, 2023

Note: IIT Mandi reserves the right to recruit/ not recruit for any of the advertised areas and apply appropriate criteria for shortlisting candidates.

³Applicants should submit a fee on SBI collect portal of the IIT Mandi; and submit generated transaction number to the OAS admission application portal. One application fee is valid for the single application. The application fee is non-refundable.