

भारतीय प्रौद्योगिकी संस्थान मण्डी कमांद, हिमाचल प्रदेश - 175075

Date: 18.04.2024

Call for Admissions in Ph.D, Dual Degree & M.Tech (Research) at Centre For AI & Robotics, IIT Mandi (Aug-Dec. 2024)

Centre for AI & Robotics, IIT Mandi is inviting applications for admission in the Ph.D., Dual Degree (M.Tech (R)+Ph.D.) & M.Tech (Research) programme in a variety of disciplines and Interdisciplinary areas under Regular/Part-time mode.

Available Program and Specializations for Admissions:

Broad Research Area	Specific Areas (but not limited to)	Branches
Drones	 Aerial manipulation Autonomous navigation and control In GPS denied environment. Drone analytics Nano Drones Drone application for Surveillance and Industrial Structure Inspection Swarm Drones Novel propulsion mechanism for Drones Airborne sensors such as Lidar, Multispectral Cameras Drone Electronics Energy management of Drones 	Master's / Bachelor's degree in: Mechanical Engineering /Electrical and Electronics Engineering/ Electrical and Communication Engineering / Computer Science Engineering/Information Technology/ /Instrumentation and
Multi-Agent Systems	 Visual Servoing Visual Robot Programming Multi-agent Systems Swarm Robotics Formation control Collision Avoidance Autonomous navigation Human-Robot Collaboration 	
Robotics	 Grasping and manipulation Collaborative manipulation Teleoperation Marine Robotics 	
Legged Robotics	QuadrupedHumanoid	
AI & Robotics for Biomedica Applications	 Generative AI tools for Enhanced sampling of biomolecules Drug Target identification In Silico protein-protein interactions Machine learning for molecular/drug design Nano robots for sensing and diagnosis Image-guided surgery intervention Robot-assisted surgery 	

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Cyber-Physical Systems (CPS) and Connected and Autonomous Vehicles (CAVs)	 Driverless Cars Cloud-Facilitated Control of CAVs Optimal control of CAVs Intelligent control in CPS Electric and Hybrid Electric Vehicles 	
Cyber Security	 Cyber security of connected systems AI/ML based threat detection and protection AI/ML based analysis of cyber-Attack and Deep fake Detection. Network Security Blockchain for cyber security Quantum cryptography 	
AIML for Robotics	 Robotic Inspection and AIML based anomaly detection. Predictive maintenance of Industrial Structures based on data from Intelligent agents. NLP (LLM) integration with Robotic Agents Reinforcement Learning for Robotic Agents Generative AI for training of Robotic agents Deep Learning for Robotics 	
Sensors for Robotics	 Developing sensors for Robotics Robot fabrication Smart materials for Robots Developing actuator for Robotics 	

Minimum Eligibility Criteria for Appearing in Admission Process:

The candidate must fulfill any one of the criterion mentioned below in the table:

	I. Master's degree in Engineering/Technology. OR	
	II. B.Tech. /B.E. from Centrally Funded Technical Institutes (CFTIs), with a minimum CGPA of 7.5 on a	
	10.0 point scale (or equivalent). OR	
For admission	III. B.Tech. /B.E. from Non-CFTIs with a valid GATE score/ any of the top 100 institutes according to	
in Ph.D.	NIRF ranking (overall category) at the time of application/ any Himachal Pradesh Govt. Institutions or	
	universities with CGPA/CPI of at least 7.5 (on a scale of 10) or equivalent.	
	Bachelor's degree in Engineering/Technology with a valid GATE score; OR	
For admission	B.Tech. /B.E. from CFTI (Centrally Funded Technical Institute)/ any of the top 100 institutes according to	
in M.Tech. (Research)	NIRF ranking (overall category) at the time of application/ any Himachal Pradesh Govt. Institutions or	
(Research)	universities with CGPA/CPI of at least 7.5 (on a scale of 10) or equivalent.	
For admission	Bachelor's degree in Engineering/Technology with a valid GATE score; OR	
in Dual degree		
(M.Tech(R) +	B.Tech. /B.E. from CFTI (Centrally Funded Technical Institute)/ any of the top 100 institutes according to	
Ph. D)	NIRF ranking (overall category) at the time of application/ any Himachal Pradesh Govt. Institutions or universities with CGPA/CPI of at least 8.0 (on a scale of 10) or equivalent.	
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Notes:

- The shortlisted candidate will be called for an interview.
- Reservation policies as per prevailing GoI rules will be followed. IIT Mandi reserves the right to admit

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/ not admitted 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.
- Industrial or Academic Institute Sponsored /Part-time/Self-sponsored M. Tech (Research)/Ph.D candidates are not eligible for MHRD/HTRA scholarships.
- Employed candidates seeking admission to M. Tech (Research)/PhD must submit a "No Objection Certificate" from their current employer at the time of interview.
- Project Staff of IIT Mandi working on research projects for a period of 6 months or more. They may be considered
 for admission to the Ph.D/Dual Degree/M.Tech (Research) Programme (guided by the same PI only) with strong
 support of the candidature by the PI.
- ❖ 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

Link to the online application:

https://iitmandiadm.samarth.edu.in/aug24/index.php/

Application Fee:

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

Mode of Payment: Online

Contact Details

- For any queries related to the admission process, required documents, eligibility conditions you may contact cairoffice@iitmandi.ac.in, or call **01905-267791**
- For only technical issues, contact it_helpdesk@iitmandi.ac.in

Important Dates:

Start of online application	18 th April 2024
Last date for filling Online Application	29 th April 2024 (till 5 PM)
Tentative date of Interview	2 nd Week of May 2024 (To be announced on IIT Mandi website)

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

Ph: 01905-267791
