Dated: 05-04-2025

Advertisement for Admission to the M. Tech (by Research-full time) / Ph. D Programme (Regular Full Time / Part Time Mode) in the School of Biosciences and Bioengineering, IIT Mandi, for July -December (Odd Semester) 2025

School of Biosciences and Bioengineering (SBB) invites applications for admissions in M. Tech (by Research-full time) and Ph. D programs Regular Full Time / Part Time Mode) for the commencing from July -December (Odd Semester) 2025 at IIT Mandi.

Programs and Criterion

Program	Research Area	Qualification for Admission	Remarks/Instructions for filling application form
M. Tech. (Research)	• Biomedical Signal and Image Processing • AI & ML for Neuroimaging (EEG/fMRI/MEG) • Cognitive and Computational Neuroscience • Bioprocess and Bioengineering, bioprocessing of waste biomass to high value-added product, • Biocatalysis and Enzyme Engineering, Microbial Consortia and co-culture system for enhanced bioprocess efficiency, Bioreactor Design and Process Optimization, • Water and wastewater treatment with management, • Downstream Processing and Product Recovery and Sustainable Biomanufacturing and Circular Bioeconomy	M.Sc./B.Tech. in Life Sciences or related areas) with a valid GATE Score in Life Sciences, Biotechnology or other related areas. **A. General eligibility criteria for M.Tech.** (Research) *Qualifying Degree:* 1. Bachelor's degree in Engineering/Technology or equivalent with a valid GATE score # OR 2. Master's or equivalent degree in Science/Arts/Commerce/Management (or allied subjects) with a valid GATE score # OR 3. Master's or equivalent degree in Engineering/Technology **# Exemptions from mandatory requirements of Valid GATE score:** 1. 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/ any Himachal Pradesh Govt. institution or universities with CGPA/CPI of at least 7.5 (on a scale of 10) or equivalent (for General/EWS categories) and a CGPA/CPI of at least 7.0 (on a scale of 10) or equivalent (for OBC-NCL category) and a CGPA/CPI of at least 6.5 (on a scale of 10) or equivalent (for SC/ST/PWD categories). 2. BS-MS/M.Sc/MA/MBA/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 (for General/EWS categories) and a CGPA/CPI of at least 7.0 (on a scale of 10) or equivalent (for OBC-NCL category) and a CGPA/CPI of at least 6.5 (on a scale of 10) or equivalent (for SC/ST/PWD categories). 3. NIRF Ranking (within top 100) should be in overall category granted for the year during which admission is sought. **B. Financial Support**: Students joining the M.Tech. (Research)/MA (Research)/MS (Research) Regular program may be considered for the HTRA Fellowship (subjected to availability of fund) based on the above admission norms, if recommended by the selection committee.	Select specialization as Biotechnology Research

Program	Research Areas	Eligibility & Qualification for Admission	Remarks /Instructions for filling application form

Ph.D.	• Microbiology, Microbiome Research, Next Generation Sequencing Applications in Health and Environment, Computational Biology
	
	• Immunology/Host pathogen interaction
	
	• Proteostasis, Aging and C.elegans
	
	• Cell and Molecular Biology
	
	• Bioprocess and Bioengineering: Bioprocessing of waste biomass to high value-added product, Microbial Consortia and co-culture system for enhancing bioprocess efficiency, Bioreactor Design and Optimization; Downstream Processing and Product Recovery; Sustainable Biomanufacturing.
	
	• Water and Wastewater Treatment with Management: Bioremediation and phytoremediation, Biological Oxidation improvement, Desalination and RO reject water management, Membrane Separation.
	
	• AI & ML for Neuroimaging (EEG/fMRI/MEG): Biomedical Signal Processing, Deep Neural Network modelling, Representational Similarity Analysis
		Master's degree in Sciences/ Engineering/Technology **or** Bachelor's degree in Engineering/Technology **or** equivalent with a good academic record and also qualified GATE or UGC/CSIR NET or DST Inspire or other equivalent national level examination.
		
		A. General eligibility criteria for Ph.D. Admission
		
		  Qualifying Degree:
		
		  1. Master's or equivalent degree in Engineering/Technology OR
		
		  2. Bachelor's degree in Engineering/Technology or equivalent* OR
		
		  3. Master's or equivalent degree in Science/Arts/Commerce/Management (or allied subjects)
		
		*For qualifying degree listed under (2) & (3) candidates must also fulfil ONE of the following additional requirements:
		
		  1. Qualified GATE / NET including lectureship (Assistant Professorship) or any other equivalent National level examination.
		
		  2. Selected through a National level examination conducted by MoE or its agencies /Institutions such as UGC/ IIT/ IISc. / IISER/ IIIT etc.
		
		  3. Minimum of TWO years of professional experience (acquired after obtaining the qualifying degree and completed before the starting of the semester in which admission is sought)
		
		*Exemptions from mandatory requirements of valid GATE or National Level examination:
		
		  1. 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/ any Himachal Pradesh Govt. institution or universities with CGPA/CPI of at least 7.5 (on a scale of 10) or equivalent (for General/EWS categories) and a CGPA/CPI of at least 7.0 (on a scale of 10) or
			In the online application select main / research area as Biosciences and Bioengineering

- Cognitive and Computational Neuroscience:
Predictive Processing, Human Vision, Language processing in humans, applications to clinical neuroscience, developmental disorders.

- Mechanobiology and Biophysics

- Other Areas of SBB

For details on faculty profiles and research work visit:
https://sbb.iitmandi.ac.in

equivalent (for OBC-NCL category) and a CGPA/CPI of at least 6.5 (on a scale of 10) or equivalent (for SC/ST/PWD categories).

2. BS-MS/M.Sc/MA/MBA/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 (for General/EWS categories) and a CGPA/CPI of at least 7.0 (on a scale of 10) or equivalent (for OBC-NCL category) and a CGPA/CPI of at least 6.5 (on a scale of 10) or equivalent (for SC/ST/PWD categories).

3. NIRF Ranking (within top 100) should be in overall category granted for the year during which admission is sought.

B. Financial Support: Students joining the Ph.D. Regular program may be considered for the HTRA Fellowship (subjected to availability of fund) based on the above admission norms, if recommended by the selection committee.

For Part Time Ph.D.
As per Ordinance
https://www.iitmandi.ac.in/pdf/ordinances//Ordinances_Ph.D.pdf

Institute Staff Members/ Research Scholars under External Registration/ Research Scholars working on Part Time Basis. Individuals employed in R&D environments in Scientific Institutions (including IIT Mandi) or industries and Faculty members of all Engineering Colleges/Universities recognized by appropriate government agencies 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

Note:- Kindly upload the NOC along with the experience certificate in One Pdf this is mandatory for part time candidate

General Information

Information on eligibility, minimum qualifications, and scholarship rules can be found at the following links.

1. **For more details about Ph.D./ Part Time Ph.D. Programme at IIT Mandi, please visit: https://www.iitmandi.ac.in/pdf/ordinances//Ordinances_Ph.D.pdf**

2. **For more details about M.Tech (Research) Programme at IIT Mandi, please visit: https://iitmandi.ac.in/pdf/ordinances/Ordinances_MTech(R).pdf**

3. Qualification for Admission to get the HTRA fellowship:-
    https://cloud.iitmandi.ac.in/f/6d07c3e7b89d43f19958/

4. **In addition, the reservation criteria, as per GoI norms:-**
    https://cloud.iitmandi.ac.in/f/e688e99966c54641826e/

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

Link to Apply: - https://iitmandiadm.samarth.edu.in/aug24/index.php

Mode of Interview: - The Interview will be in OFFLINE mode .

Application Fee for Ph.D. Admission

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 sbb_admissions@iitmandi.ac.in , or call 01905-267061

• For only technical issues, contact it_helpdesk@iitmandi.ac.in

Dates:

Start of online application 5th April 2025

Deadline for online application ~~21st April 2025 (05:00 PM)~~

Extended till 24th April 2025(5:00pm)

Tentative dates for interview: 26th May 2025 and or 27th May 2025

*   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 and apply appropriate criteria for shortlisting.
*   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 applications shall be summarily rejected.

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

SBB PhD Admissions

The Last Date for PhD Admission in SBB mentioned in the Advertisement-link:-https://www.iitmandi.ac.in/pdf/admissions/SBB-Phd_M.Tech(R)%20advertisment%20July-Aug%202025.pdf

dated 05-04-02025 has been extended till **24-04-2025(5:00pm)**

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