

Department of Biotechnology

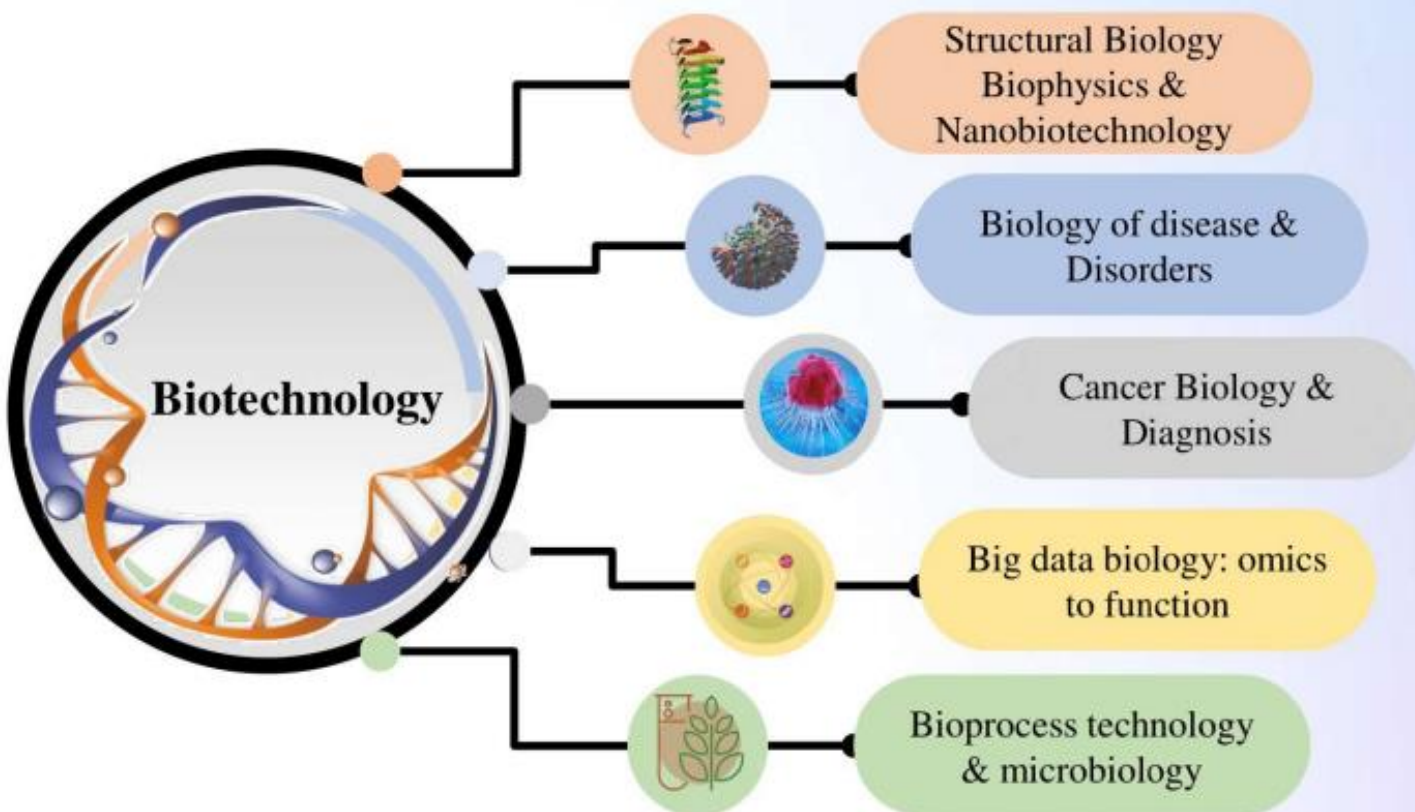
Indian Institute of Technology Hyderabad



भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Ph.D. Admissions Brochure [October 2024]

Website: <https://biotech.iith.ac.in/>



Department of Biotechnology

(Overview)

The Department of Biotechnology, established in 2010, offers outstanding research programs in the frontier areas of Biotechnology encompassing both applied and basic research spanning various experimental and computational frontiers. Research activities in the department are funded by national agencies such as DBT, DST, ICMR, CSIR, etc.

The mission of the Ph.D. program is to develop a new generation of scientific leaders with scientific vigor, critical thinking, ethics, and multitasking managerial skills to thrive in the fast-paced technology-driven industry and academia. We foster innovations through cutting-edge technologies and interdisciplinary research.

For more details visit: <https://biotech.iith.ac.in/>

Research Areas open for the October 2024 round

Applications are invited from suitably qualified & motivated candidates for admission to the Ph.D. program in the Department of Biotechnology, IITH, in the following research areas:

Experimental PhD openings

Research Areas	Faculty
Human-Virus protein-protein interaction.	Dr. N.K. Raghavendra https://shorturl.at/8mWiM
Cancer genomics and biomarker discovery, 3D cancer model development, Drug resistance and repurposing, Long noncoding RNAs, Alternative splicing and RNA metabolism in cancer, Protein Engineering.	Dr. Ashish Misra https://shorturl.at/NQRMs

Computational PhD openings

Research Areas	Faculty
Computational microbial 'omics; Biomolecular interaction prediction using machine learning	Dr. Thenmalarchelvi Rathinavelan https://shorturl.at/PpqPZ
Computational genomics and transcriptomics, AI for precision medicine, predictive biomarkers in cancer, epigenomics, genome wide drugs and CRISPR/sh-RNA screens.	Dr. Rahul Kumar https://shorturl.at/HPQbl
Biomolecular modeling and simulations, DNA Nanotechnology, Nanoparticles interaction with biological matter, Lipid-DNA interaction, Computational biophysics, Computational Virology.	Dr. Himanshu Joshi https://shorturl.at/QiRSj
Computational biology, bioinformatics, Transcriptomics / proteomics / metabolomics data-driven & machine-learning models, Biological networks, Metabolism, Parasitology & Immunology	Dr. Abhishek Subramanian https://tinyurl.com/yeyzs253
Artificial Intelligence and Machine Learning, Software Development for Drug Discovery, Protein-Protein, Protein-Ligand Interactions, Chemoinformatics, Bioinformatics and Health Informatics, Computational Quantum Chemistry, Non-covalent interactions.	Dr. G. Narahari Sastry https://gnsastry.com/

Minimum Eligibility Criteria

Eligibility

- MTech in any area of Life Sciences/Biotechnology/Physical Sciences
- MSc degree in any allied area of Life Sciences/Biotechnology, Physical or Chemical Sciences and possessing a valid National level JRF qualification (or) qualified GATE (need not be valid).
- BTech/BE in any allied area of Life Sciences/Biotechnology/Physical Sciences (or) MBBS and qualified GATE (need not be valid) or with a valid National level JRF qualification.

Candidates should also possess:

- General category: at least 63% marks in the highest qualifying degree
- OBC category: at least 62% marks in the highest qualifying degree
- SC/ST category: at least 60% marks in the highest qualifying degree
- For those who have not yet completed their qualifying examination, the marks obtained up to the 3rd semester for M.Sc./M.Tech. and 7th semester for B Tech/BE Students will be considered.

Category of admission

- I. Full-time Institute Fellowship (funded by MoE): Any candidates with MTech/MSc/BTech/MBBS degree can apply.
- II. Fellowship from external funding agency: Candidates with valid CSIR-NET-JRF/UGC-NET-JRF/ICMR-JRF/DBT-JRF/ (Category-I) award or any other equivalent national level qualification for research fellowship (e.g., DST-INSPIRE fellowship) can apply under this category.

Note: Prospective applicant has to ensure he/she meets all eligibility criteria before applying. Shortlisting criteria are usually higher than minimum eligibility criteria. The department reserves the right to set any cut-off criteria for shortlisting the candidates.

Selection Procedure

- Candidates will be shortlisted according to the criteria set by a shortlisting committee and called for an interview subsequently.
- Selection to the Ph.D. program will be based on the performance in the interview.
- Request to change the interview date/time will not be entertained.

Interested candidates can apply online through IIT Hyderabad's website: <http://www.iith.ac.in/phdadmissions/>

For any further information, please contact by email:

phd_biotech@iith.ac.in

Note: *The department has the right not to select any candidate if appropriate candidates are not found.*

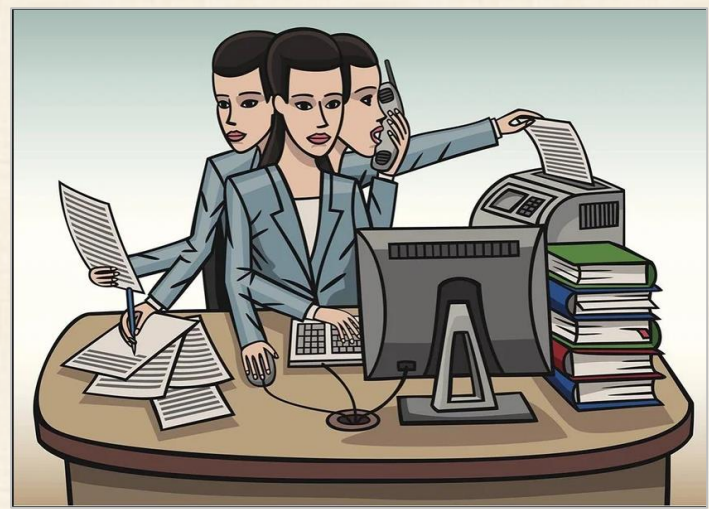
Career Prospects

Biotechnology/Bioinformatics Research & Teaching (Academics)



**Pharmaceuticals and
Healthcare Industries**

**Science Writers
Science Communicators**



Top Companies and Institutes



National Institutes
of Health



भारतीय विज्ञान संस्थान

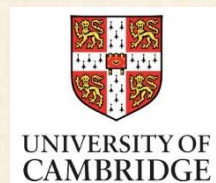


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