

# DEPARTMENT OF BIOLOGICAL SCIENCES

BITS Pilani, Pilani Campus- at a Glance



**Ranked 2<sup>nd</sup> in Life Sciences among Indian Institutes (WUR: 251-300), Times Higher Education (THE) World University Subject Rankings 2022.**



The Department of Biological Sciences at the BITS Pilani was formed by merging the existing Botany and Zoology Department in the year 1969. The Department of Biological Sciences, is looking for bright and dedicated young research scholars. The department is pursuing R & D projects sponsored by various government funding agencies and industries. In the last 10 years, the Department has produced over 100 PhDs (both On-Campus & Off-Campus) in different areas of Biological Sciences. The graduating PhD students have found positions in both Industry and Academia in India and Abroad. Positions are now open in different research thrust areas in the Department.

## Research Thrust Areas of the Department

- Biochemistry and Enzymology
- Bioinformatics and Computational Biology
- Cancer Biology and Chronic Diseases
- Environmental & Microbial Biotechnology
- Parasitology and Vector Biology
- Plant Biotechnology

## Departmental Infrastructure

- **Teaching Labs:** Microbiology, Genetic Engineering, Biology Lab, Microscopy, Biotechnology, Green House, Animal Tissue Culture Lab, Plant Tissue Culture Lab.
- **Research Labs:** Malaria & Systems Biology, Environmental & Microbial Biotechnology, Plant Biotechnology, Plant Informatics, Biochemistry & Enzymology, Bioinformatics, Cancer Biology, Cardiovascular Diseases, Insectary (Plasmodium), Fly Lab (Drosophila), Algal Research Lab.

## Major Instrumentation Facilities

ApoTome Fluorescence Microscope, FPLC, GeneGun, Fluorescence Microscopes, ICP-OES, Ultra-centrifuge, Biological Safety Cabinet, Plant Growth Chamber, CO2 Incubator, HPLC. In addition, institute has **Central Analytical Lab (CAL)** and **Sophisticated Instrumentation Facility (SIF)** that includes several high end equipment like, SEM, XPS, AFM, Flow Cytometer, Confocal Microscope etc.

## Faculty Strength

Senior Professors / Professors (09), Associate Professors (07), Assistant Professor (04).

## Funding Support

DBT, DST-SERB, DST-FIST, ICMR, DRDO, UGC, CSIR, ICAR, DST-INSPIRE, Aditya Birla Group, BITS Internal Grants.

## Research Outcomes

- **Publications** in peer reviewed journals in academic year 2023-24: ~ 65 *Research Articles published in Journals like- Carbohydrate Polymer, Cells, Diabetologia, Bioinformatics, Life Sciences, Communication Biology etc.*
- **Average Impact Factor** (2019-2024): ~ 3.02
- **Patents applied** (2019-2024): 07
- **Extramural Research Funding** (2019-2023): ~ 15 Crores
- **Current PhD student strength**- as on 2024: # 80

## Programs Offered

**M.Sc. Biological Sciences**  
{Integrated / Dual First Degree}  
**M.E. Biotechnology**  
**Ph.D.**

Candidates with CSIR-NET JRF, DBT-JRF, ICMR-JRF UGC- JRF/ DST- Inspire fellowships can apply for PhD throughout the year.

## PhD Eligibility and Application Procedure

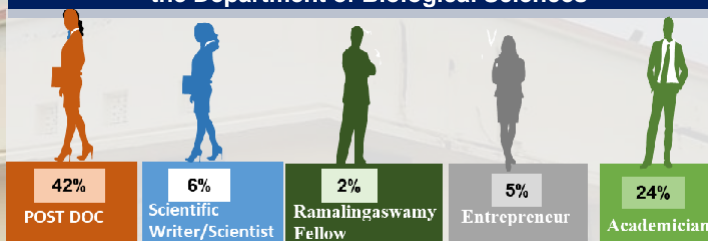
The applicant should possess Master's degree (M.Sc./ M. Tech. or M.E./ M. Phil/ MD in any Biological Science discipline or M. Pharma/ B. E. or B. Tech. Biotechnology with a minimum of 60% aggregate.

- Financial Support:** Candidates without own fellowship selected for the PhD programme, will be considered for Institute Fellowship as per the Institute rules.
- Interested candidates should apply using prescribed application forms available at <https://www.bitsadmission.com/phdmain.aspx>

## Selected Student Achievements

Prime Minister's Fellowship, EMBO, DST-SERB, WoS-A/B, CSIR / ICMR -SRF, Newton Bhabha Fellowship, Khorana Scholarship, etc.

## Current Employment Statistics of Graduates (PhD) from the Department of Biological Sciences



## Selected Recruiters and Academic Destinations of ME and PhD Students of the Department of Biological Sciences

- ✓ Stanford University
- ✓ Boston University
- ✓ Carnegie Mellon University
- ✓ Washington University
- ✓ Georgia Tech University
- ✓ University of Edinburgh
- ✓ University of Dayton
- ✓ Max-Planck-Gesellschaft
- ✓ Australian National University
- ✓ University of California, USA
- ✓ Biocon Biologics
- ✓ Syneos Health
- ✓ Innomagine
- ✓ PharmaAce
- ✓ Datazymes
- ✓ Ministry of AYUSH, India

<https://www.bits-pilani.ac.in/pilani/biological-sciences/>  
<https://www.facebook.com/DoBiologicalSciencesBITSPilaniPilaniCampus>  
<https://www.linkedin.com/company/86437432/admin/>  
<https://twitter.com/OfSciences>

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