

BIRLA INSTITUTE OF TECHNOLOGY

MESRA, RANCHI - 835215 | WWW.BITMESRA.AC.IN

BIOENGINEERING & BIOTECHNOLOGY

Placement Brouchure
— 2022-2023 —



About the department

The Department of Bioengineering was established in 2002 with financial support from the Department of Agriculture, Government of Jharkhand, with objectives like providing education and training facilities, carrying out application-oriented research, developing in-house technologies, and promoting consultancy services in various areas of Biotechnology.



Programmes Offered

Undergraduate programmes

- B.Tech

Post-graduate programmes

- M.Sc. Biotechnology
- M.Tech. Biotechnology

Doctoral programmes

- Ph.D.

Courses Offered

Biotechnology

Bioanalytical Techniques
Biological Science
Reaction Engineering
Cell & Molecular Biology
Microbiology
Food & Enzyme Technology
Plant & Agricultural Biotechnology
Bioseparation Engineering
Biochemistry & Enzyme Technology

Computer Science

Programming in C/ C++
Fundamentals of Data Structures

Chemical Engineering

Chemical Reactions Engineering
Mass Transfer Operations
Chemical Process Calculation
Process Management & Control

Mathematics

Real & Complex Analysis
Differential Equations: ODE PDE
Transformations: Laplace & Fourier

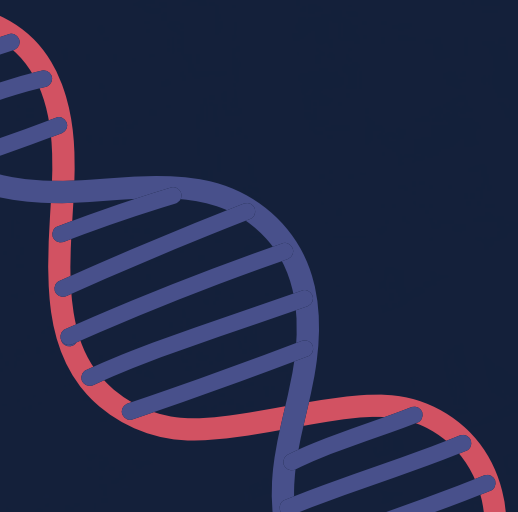




Laboratories & Facilities



- MegaBACE Automated DNA sequencer
- GC-Mass Spectrophotometer
- GC (FID)
- Real-Time PCR
- HPLC
- Typhoon Laser imager
- Lypholizer
- Thermal cyclers
- Gene Pulser
- Microplate reader
- 2D electrophoresis system
- Chromatography system
- Spectrophotometers
- Fluorimeters
- Leica microscope with colony counter
- Leica fluorescence microscope
- Lab and Pilot scale Bioreactors
- Cross-flow filtration systems.



Research Areas

Agriculture & Plant Biotechnology
Algal Biotechnology
Animal & Plant Tissue Culture
Biofuel Production
Bioinformatics
Bioprocess Engineering
Biosensor & Nano-biotechnology
Down Stream Processing
Environmental Biotechnology
Food Biotechnology
Industrial Biotechnology
Medicinal Plant
Microbial Resources
Microbial Biotransformation



Biotechnology Lab



Achievements

- Ishita Hiremath has received offers for MS in biotechnology from Cornell University, McGill University.
- Hrithik Baradia has cleared GATE 2021 with an AIR of 24.
- Pre-final year student Hrithik Shankar received an offer to work on the topic of Structural diversification to produce natural and “unnatural” anticancer compounds during his summer internship at the University of British Columbia - Okanagan Campus.
- Pre- final year students Ujjwal Kant and Hrithik Shankar cleared GATE 2021 with an AIR of 275 and 687.
- Pre-final year student Agrima Vasudeva has done research on the topic Neuro basis of cognitive control at IIT Allahabad.
- Monica Rohini cleared XAT and received an offer from NTPC school of business for higher studies in energy management.



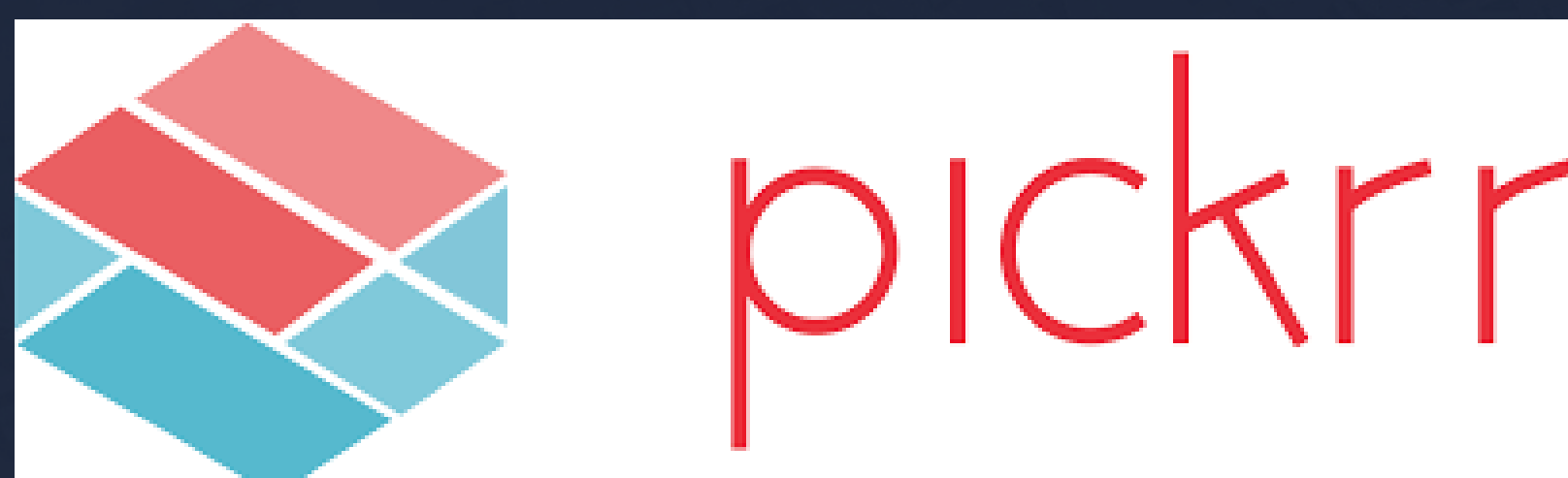
Internships & Trainings

Trilogy Innovations
Goldman Sachs
Bain Capability network
Futures First
Cognizant
Infosys
EXL services
Nation with Namu
Miebach Consulting
Kantar
ZS

Nexus power
Tredence
Accenture
Ugam solutions
Wipro
Amadeus software labs
Tata Unistore
Box8
Google
Axis Bank

Pickrr technologies
BYJU's
Capgemini
Times Internet
TATA IQ
Teg analytics
PwC
Akash Institute
HCL

Our Proud Recruiters



THANK YOU

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