



CENTRE FOR CAREER DEVELOPMENT
INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

DEPARTMENT OF BIOSCIENCES AND BIOENGINEERING.

Batch of 2027 | Department Placement Brochure

B.TECH · M.TECH · PHD



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About IIT Guwahati

Established in 1994, Indian Institute of Technology Guwahati is the sixth member of the IIT fraternity and one of India's premier institutions for higher education, research, and innovation.

Within a short span, the Institute has emerged as a global centre of excellence in science, technology, management, and design.

The picturesque campus spans 285 hectares on the northern bank of the Brahmaputra River, approximately 20 km from the heart of Guwahati city.

Surrounded by scenic hills and open spaces, it offers a perfect environment for learning, research, and holistic development.

IIT Guwahati offers a wide array of academic programmes including B.Tech., B.Des., BSc (Hons), M.Tech., M.Des., M.Sc., MBA, M.A., MS(R) and Ph.D. across 11 departments, 9 interdisciplinary centres, and 5 schools, covering major disciplines in engineering, science, humanities, healthcare, and management. The Institute has built world-class infrastructure and

houses state-of-the-art laboratories and National Centres of Research that support cutting-edge research.

Students are encouraged to take up interdisciplinary coursework, pursue minor degrees, and choose from a rich variety of open and interdepartmental electives.

IIT Guwahati has signed MoUs with top international universities, facilitating semester exchanges and summer internships, thereby broadening students' global exposure. Our students regularly intern at leading global firms and research institutions, gaining invaluable real-world experience.

Ranked among the top 100 world universities under 50 years by Times Higher Education (THE), IIT Guwahati continues to excel globally.

The Institute was ranked 42nd globally in 'Research Citations per Faculty' and 344th overall in QS World University Rankings.



Director's Message

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Indian Institute of Technology Guwahati was established in 1994 by an Act of Parliament. The academic programme started with 65 students in three undergraduate programmes in 1995. The institute is growing steadily and the total number of students in eleven departments, nine academic centres and five schools in numerous undergraduate and postgraduate programmes is now around 8600. The institute has excellent infrastructure for the all round development of its students. The institute has full-fledged Technology Incubation Centre and Research Park to promote entrepreneurship activities.

IIT Guwahati continues to maintain its superior position in various International and National Rankings. IIT Guwahati secured the 8th position among the top engineering institutions in India in the NIRF 2025 Rankings, released by the Ministry of Education.

Additionally, IIT Guwahati has been ranked as the 11th best university in the country. IIT Guwahati has been ranked 2nd in the 'Swachhata Ranking' conducted by the Govt. of India. IIT Guwahati has been ranked as the topranked university in 2019 for IT developers by HackerRank in the Asia-Pacific region. IIT Guwahati gained 42 position globally in the 'Research Citations per Faculty' category and overall 344 rank in the QS World University Rankings 2025 released recently. Also, IIT Guwahati ranks 6th globally in Sustainable Development Goal 7 (Affordable and clean energy) of the Times Higher Education Impact Rankings 2023.

With Best Wishes,

Prof. Devendra Jalihal

Director, IIT
Guwahati

The institute has a very good central library, which provides library and information services to support teaching, learning, and research activities by creating state-of-the-art facilities. It is housed on a four-storey building having a floor area of about 7500 sq. meter. Inhouse services of the library are fully computerised and wi-fi facility is provided within the library building for connecting to the internet and accessing the Institute's electronic resources. The sports facilities of the institute are of international standard. The students graduating from this institute are motivated, bright, and very eager to perform after they graduate.

IIT Guwahati has extensive facilities for cultural and creative activities too. For example, the Technical Board promotes technology, creativity and innovation. IIT Guwahati helps in shaping up bright minds with proper perspectives. IIT Guwahati hosts two supercomputing facilities PARAM-Kamrupa (838 TF) and PARAM-ISHAN (250TF) to carry out research activities in various scientific domains including forecasting of weather and climate, bioinformatics, computational chemistry, molecular dynamics, artificial intelligence (AI) and machine learning and especially data science.

Because of the excellent performance of the students of IIT Guwahati in all the fields of study and research, guided by the dynamic faculty members and with the full support of the non-teaching employees, IIT Guwahati could feature in the coveted list of young universities (under 50 years of age) of the world selected by the Times Higher Education (THE) magazine. IIT Guwahati is the only Indian entry to this elite list. I cordially invite all prospective employers to visit IIT Guwahati and to participate in the on-campus placement and internship processes.

About the Department

Established in 2002, the Department of Biosciences and Bioengineering at IIT Guwahati is a leading center for interdisciplinary education and research, integrating life sciences and engineering to address societal challenges.

The Department of Biosciences and Bioengineering (BSBE) at the Indian Institute of Technology Guwahati was established in November 2002 with the objective of advancing education and research in the rapidly evolving fields of biological sciences and biotechnology. The department offers undergraduate (B.Tech.), postgraduate (MTech.), and doctoral (Ph.D.) programs, providing students with a strong interdisciplinary foundation that combines life sciences with engineering principles. As the only department of its kind in North-Eastern India, BSBE has played a pioneering role in promoting biotechnology education and research in the region.

The department is recognized for its high-quality teaching, modern research infrastructure, and vibrant academic environment. With 38 faculty members from diverse scientific and engineering backgrounds, it supports cutting-edge research in areas such as biochemical engineering, tissue engineering, plant biotechnology, nanobiotechnology, computational biology, cancer biology, infectious diseases, and proteomics. Advanced laboratories and research facilities enable students and researchers to undertake innovative projects that address both fundamental scientific questions and industrial challenges.

The department is committed to nurturing competent, motivated engineers and scientists who can contribute effectively to academia, research organizations, healthcare, and biotechnology industries. Through its strong emphasis on interdisciplinary learning, innovation, and skill development, BSBE continues to contribute significantly to the growth of biotechnology and bioengineering in India.

Mission

The Department of Biosciences and Bioengineering aims to define and establish a unique academic discipline that integrates life sciences with engineering. It is dedicated to advancing knowledge through excellence in education, research, and innovation while fostering a culture of scientific curiosity and discovery. The department emphasizes the development of analytical, technical, and problem-solving skills, enabling students to address complex interdisciplinary challenges independently and effectively.

Vision

The vision of the department is to deepen the fundamental understanding of biological systems and develop biology-based technologies that address societal needs. Through research, education, and innovation, the department seeks to create sustainable solutions in healthcare, agriculture, environmental management, and industrial biotechnology while striving to be a leading center of excellence in biosciences and bioengineering.



Head of Department's Message



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Since opening our doors in 2002, the Department of Biosciences and Bioengineering has grown into a premier hub for learning and hands-on professional training. Over the last twenty-four years, we have balanced a deep commitment to scientific discovery with a clear mission: preparing our students for the real world. Our graduates leave ready to make a genuine impact in biotechnology, pharmaceuticals, healthcare, and life sciences sectors across the country and globe.

We carefully design our syllabus to mix classroom fundamentals with the practical tools students need in the workplace. Our students learn by doing, spending time in modern labs, tackling hands-on projects, and gaining real industry experience through internships. We offer a four-year B.Tech. undergraduate degree in Biosciences and Bioengineering, a two-year M.Tech. postgraduate degree focused on Biotechnology and Bioengineering, and advanced Ph.D. research opportunities across diverse fields for those chasing scientific discovery.

Backed by modern facilities and excellent resources, our alumni are building successful careers in biomanufacturing, healthcare analytics, consulting, and new tech sectors. You can find our graduates leading the way at major global companies like AstraZeneca, Sanofi, Merck, Takeda, Biocon, Syngene, Dr. Reddy's Laboratories, Perfect Day, and Elucidata. Many of our alumni choose to forge their own paths as entrepreneurs.

They have launched creative start-ups in fields ranging from AI-driven lab automation to modern food science—with one of our own recently making the Forbes 30 Under 30 list. Others follow their love for research into teaching and scientist roles at top universities worldwide. These varied paths highlight the incredible flexibility of our interdisciplinary training.

We work closely with industry partners to train the next generation of skilled professionals, meeting the changing needs of science, business, and society. Our team consistently aspires to elevate our research profile by sharing our findings in respected international journals. Our faculty members are widely recognized for their achievements and work with prominent national and international groups. At our core, we remain dedicated to helping students and researchers thrive. By blending academic excellence with real-world skills, we are proud to shape the future of bioengineering in India and around the world.

We deeply appreciate all past and future recruiters for the absolute confidence they have in our students, whose brilliance and potential make our efforts rewarding. As our current graduates step into the future, we commend their hard work and extend our warmest wishes to them to serve with distinction in top industries and government sectors across the nation and the globe.

With Best Wishes,

Prof. Utpal Bora

Head of Department · Biosciences and Bioengineering

From Department Faculty Representative

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Established in 2002, the department has grown into a leading hub for interdisciplinary education and cutting-edge research at the intersection of life sciences and engineering. Through a commitment to innovation and real-world impact, we empower students across our B.Tech., M.Tech., and Ph.D. programs with the foundation and critical skills needed to tackle global scientific and technological challenges.

Our curricula are designed to promote interdisciplinary learning, critical thinking, creativity, and problem-solving skills. By integrating theoretical knowledge with hands-on practice, the department equips its students to transform scientific knowledge into real-world solutions. Under the mentorship of experienced faculty, the students gain hands-on laboratory experience and lead cutting-edge research projects, building the technical and professional expertise needed to drive scientific breakthroughs.

The department takes pride in fostering an environment that nurtures innovation, scientific curiosity, and excellence in research. Through exposure to advanced technologies and collaborative research opportunities, students develop the skills required to tackle complex challenges in biotechnology, healthcare, environmental sustainability, and bioengineering. The strong emphasis on experiential learning ensures that graduates are well prepared for careers in academia, research organizations, industry, entrepreneurship, and public service.

As our students embark on their professional journeys, they carry with them a robust blend of theoretical understanding, practical experience, and ethical responsibility. Their achievements reflect the department's dedication to producing highly skilled professionals capable of contributing meaningfully to society. We warmly invite academic institutions, research organizations, and industry partners to engage with our talented students and faculty, and to explore opportunities for collaboration that foster innovation, knowledge exchange, and mutual growth.

With Best Wishes,

Prof. Nitin Chaudhary

Head of Department · Biosciences and Bioengineering

Programmes Offered

Bachelor of Technology (B.Tech)

ADMISSION VIA JEE ADVANCED

The Department offers a four-year B. Tech in Biosciences and Bioengineering to train the bright students as engineer along with essential Knowledge on Biosciences and Bioengineering. In this program, the courses are designed systematically to offer an overall knowledge of physics including experimental techniques with modern equipments. The professional and academic success of our graduates is evident in their routine acceptance into top-tier universities and their receipt of lucrative employment offers from globally recognized corporations

Master of Technology (M.Tech)

ADMISSION VIA GATE

The Department of Biosciences and Bioengineering provides two Master of Technology (M.Tech.) programs M.Tech in Biotechnology and M.Tech in Bioengineering. The curriculum maintains a strong balance between theoretical classroom instruction and practical, hands-on laboratory experience with modern instrumentation. Graduates are highly successful in securing positions for advanced studies at renowned universities and research institutes globally.

Doctor of Philosophy (PhD)

ADMISSION VIA WRITTEN TEST & INTERVIEW

The doctoral program is designed to foster cutting-edge research that drives innovation in both industrial and medical sectors, carried out under the mentorship of distinguished principal investigators. Major research domains include cancer biology, protein biology, bioprocessing, microbiology, virology, biofuel production, applied biotechnology, and stem cell biology, alongside several other emerging and interdisciplinary fields.

Student Strength

PROGRAMME	GRADUATING YEAR	STUDENTS
Bachelor of Technology	Batch of 2027	80
Master of Technology (Biotechnology)	Batch of 2027	43
Master of Technology (Bioengineering)	Batch of 2027	10
Doctor of Philosophy	Batch of 2027	12
Total		



Curriculum Highlights

Core courses

Bioprocess Instrumentation and Control

Bioinformatics

Computational Biology

Biological Data Analysis

Bio-reaction Engineering

Quantitative Biology

Advanced Bioengineering

Genetic Engineering

Metabolic Engineering

Cell and Molecular Biology

Electives

Biosensors

Biomaterials

Systems Biology

Nano-Biotechnology

Drug Design and Discovery

Advanced Process Control

Proteomics: Methods and Applications

Neural Imaging and Signal Systems

CRISPR-based Genome Editing

Tissue Engineering and Regenerative Medicine

Laboratory courses

Basic Programming Lab

Computing Laboratory

Biochemical Engineering Laboratory

Applied Biology and Bio-engineering Lab

Biochemistry Laboratory

Analytical Biotechnology Lab

Basic Electronics Laboratory

Applied Bioengineering Lab

Molecular Biology & Genetic Engineering Lab

Experimental Techniques in Bioengineering

Faculty

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Faculty

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Faculty

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Research Areas

The Department of Biosciences and Bioengineering at IIT Guwahati conducts interdisciplinary research spanning fundamental biology, biotechnology, healthcare, and engineering. With state-of-the-art laboratories and faculty expertise across diverse domains, the department addresses challenges in human health, sustainable bioprocesses, advanced biomaterials, computational biology, and industrial biotechnology through innovative research and industry-oriented solutions.

Research activities integrate life sciences, engineering principles, data science, and translational technologies. Faculty and students collaborate on nationally and internationally funded projects, generating impactful publications, patents, and technologies addressing healthcare, agriculture, environment, and industrial biotechnology challenges.

The department houses specialized laboratories supporting cutting-edge research in molecular biology, bioengineering, computational biology, biomaterials, stem cells, cancer biology, bioprocess engineering, and biosensors. These facilities provide extensive opportunities for innovation, entrepreneurship, and industry collaboration.

Thrust areas

Molecular Biology, Biotechnology & Human Health

Research focuses on cancer biology, molecular biology, protein biology, stem cell biology, regenerative medicine, immunology, infectious diseases, RNA biology, genomics, proteomics, and drug discovery. The work aims to understand disease mechanisms and develop innovative therapeutic and diagnostic solutions for healthcare applications.

Biomaterials, Bioprocess Engineering & Industrial Biotechnology

Research emphasizes biochemical engineering, tissue engineering, biomaterials, nanobiotechnology, biosensors, bioinstrumentation, enzyme and microbial technology, biofuel production, metabolic engineering, environmental biotechnology, fermentation technology, bioprocess optimization, and sustainable manufacturing processes. The objective is to develop scalable technologies for biotechnology, pharmaceutical, energy, and environmental sectors.

Bioinformatics & Computational Biology

Research encompasses computational biology, bio-informatics, systems biology, computational structural biology, bio-mechanics, neural engineering, biophysical and biochemical studies, molecular dynamics simulation, and AI-enabled biomedical technologies. These efforts combine engineering and biological sciences to create advanced healthcare technologies and next-generation biomedical solutions.

Laboratories & Facilities

Viral Immunology Lab (Prof. Sachin Kumar)

The paramyxoviruses include viruses that are isolated from many species of terrestrial, avian and aquatic animals. The group includes many important pathogens of humans such as measles virus, human respiratory syncytial virus, human parainfluenza viruses, Nipah virus and Hendra virus and animals such as canine distemper virus and Newcastle disease virus. Newcastle disease virus (NDV) is the prototype member of this family and is a leading cause of respiratory disease in avian species. It leads to huge economic losses to the poultry industry in India. The laboratory focuses mainly on understanding the biology of avian paramyxovirus and development of vaccine against them using reverse genetics system.

Bio Process Analytical Technology Lab (Prof. Senthilkumar Sivaprakasam)

The lab develops PAT technology for recombinant therapeutic proteins and value added compounds such as biopolymers, organic acids etc. PAT is defined as 'System for designing (process development), analysing and controlling manufacturing process, based on timely measurements of critical quality and performance attributes of raw material, in process materials and processes with the goal of ensuring final product quality'. PAT methodology envisages the identification of Critical Process Parameters (CPPs) and Critical Quality Attributes (CQAs) for every process. The CPPs are the indication of the overall reliability that a process proceed in the desired direction.

Biomaterial and Tissue Engineering Lab (Prof. Biman B. Mandal)

Tissue engineering has emerged as a potential way to treat tissue damage or organ failure as a result of injury or disease. Our laboratory "Biomaterials and Tissue Engineering Laboratory", a DBT-Unit of Excellence, majorly focus on developing affordable lab grown tissue/organ replacements for human transplantation. The lab focus on the following areas of importance i.e. Cell Based Tissue Engineering of Grafts and Implants, Human Stem Cell Based Regenerative Medicine, Biomaterials, 3D Bioprinting, Drug Delivery Systems, 3D Disease Tissue Models, Bioinstrumentation

Bioengineering Research Lab (BERL) (Prof. Utpal Bora)

The research interests of this laboratory include Biomedical Engineering, Seri-biodiversity, Seri-bioinformatics and Bio-entrepreneurship.

Bio-interface & Environmental Engineering Lab (Prof. Lalit Mohan Pandey)

The laboratory focuses on the following research aspects: (i) Surface and interfacial science particularly in the area of Bio-interfaces and Biomaterials (Design of Biocompatible surfaces): The surfaces are modified using various Self-Assembled Monolayers (SAMs) and their interactions with water, bio macromolecules i.e. polymers, proteins and cells are studied, (ii) Protein's adsorption and aggregation, (iii) Environmental Biotechnology: The lab focuses on 3Rs. Reduce waste generation, recycle the treated waste and reuse waste as by-product or recover energy from the waste.

Applied Biodiversity Lab (Prof. Latha Rangan)

The group tries to address the research questions in areas of Applied Biodiversity with special reference to bioresources of Northeast India using an integrative approach.

Laboratories & Facilities

Biophysical Chemistry Lab (Prof. Nitin Chaudhary)

The laboratory focuses on understanding the molecular self-assembly and amyloid diseases, protein/peptide membrane interactions, and developing peptide based antibiotics.

Bioprocess Development Lab (Prof. Debasish Das)

The research focus of the lab is the process development for various value added products using microbes as a cell factory. The areas that are currently being pursued are: biodiesel production from freshwater microalgal isolates *Chlorella* sp. and diatoms; bioethanol from agricultural wastes, process development for hyaluronic acids from new *Streptococcus* isolates and butanol production from *Clostridium* sp. The lab aims at improving overall performance of the technology via combined modifications at the process (Biochemical engineering approach) and strain level (genetic engineering approach). The lab has expertise to create solutions for process development by combining biochemical and biological knowledge with engineering principles.

Biosensor and Biofuel Cell Research Lab (Prof. Pranab Goswami)

The lab is involved in the development of novel bio-recognition system and their applications for developing biosensors and biofuel cells. DNA aptamers, catalytic as well as non-catalytic proteins have been investigated as biorecognition elements for some clinical applications targeting to operate in point-of-care and resource limited environments. Focus has been given on the rapid detection of acute myocardial infarction (AMI), cholesterol, alcohol, bilirubin and malaria due to their obvious importance in diagnostic sector.

Cancer Biology Lab (Prof. Ajaikumar B. Kunnummakara)

The research interests of the lab include (i) Role of inflammatory pathways in cancer development, (ii) Identification of novel biomarkers for cancer diagnosis and prognosis, (iii) Cancer drug discovery, and (iv) Development of transgenic and gene knockout mouse models for biomedical research.

Biomolecular solution and solid-state NMR (Prof. Himanshu Singh)

The lab investigates the structure, function and dynamics of proteins using techniques like UV-Visible spectroscopy and Fluorescence Spectroscopy. Recently our group has discovered a novel UV-Vis absorption band in proteins that are rich in charged amino acids like K, D, E, R and H called Protein Charge Transfer Spectra or ProCharTS. Currently our lab has initiated work to investigate the role of histones, nucleosomes and chromatin in cellular functions using the above approaches.

Computational Structural Biology Lab (Prof. Priyadarshi Satpati)

The research in the lab is focused to understand the speed and accuracy of translation using Computer Simulations. Using explicit solvent all atom molecular dynamics free energy simulations, the lab studies the protein-ligand, protein-RNA, RNA-RNA interactions and their relevance to biology. The lab is specially interested in translation factors, synthetases (aaRS), Ribosome etc.

Laboratories & Facilities

Translational Crop Research Lab (Prof. Lingaraj Sahoo.)

Pathogens, insects and abiotic stresses cause major losses in yield and quality of crops. The discoveries in basic plant research play a vital role in meeting these challenges by developing technologies to improve agriculture by introducing important traits to crop of interest. The lab employs integrated approaches to identify genes with significant agronomic impact in both model (Arabidopsis) and crops (grain legumes and oil seeds), understand the mechanism by which they function and using this knowledge, develop designer crops.

Biomechanics and Simulations Lab (Prof. Souptick Chanda)

The Lab is primarily engaged in design and optimization of various orthopaedic implants based on in vitro and in silico biomechanical testing/validations. Simulations for surgery and patient examinations training are also being envisaged at this laboratory.

RNA-Binding Proteins (RBPs) Lab (Prof. Kusum Singh Laboratory)

The lab's research interest is in post-translational gene regulation by RNA binding proteins. During alternative splicing, introns are spliced out in various ways from the precursor RNA, resulting in one gene producing several different mRNAs and protein products. The process of alternative splicing requires accurate selection of splice sites, which play a key factor in the generation of different transcripts. Several regulatory protein complexes take active part to aid in the selection of splice sites, like small nuclear ribonucleoprotein complexes containing U1, U2, U4/U6 and U5 subunits. The serine/arginine-rich protein family members (SR proteins) and SR-related proteins (SR-rps) also have the capability to assist in the splice site selection process.

Integrated Bioprocess Laboratory (Prof. Soumen Kumar Maiti)

The research interests of the lab include Biochemical Engineering, Biofuel, Bioprocess modeling, control, optimization, Metabolic engineering, Downstream processing, Membrane separation, Bioremediation.

Neural Engineering Lab (Prof. Cota Navin Gupta)

The research interest of the lab includes Imaging Genetics, Biomedical Signal/Image Processing, Multimodal Analysis, Computer Aided Diagnosis, and Biomedical Instrumentation.

Biochemical & Environmental Engineering Lab (Prof. Selvaraju Narayanasamy)

The research interest of the lab includes Environmental Biotechnology, Bioprocess Engineering, Biochemical Engineering.

Laboratories & Facilities

Molecular Informatics and Design Group (Prof. Vibin Ramakrishnan)

Molecular Informatics and Design Group integrates diverse disciplines of science and engineering in the design and development of advanced materials. The lab's approach to a research problem is 'idea centric' with a clear emphasis on the design phase, adopting modeling and informatics tools. The lab experiments a reductionist approach in understanding the interaction between molecules resulting in assembled architectures at nano and micro scale, and further employ it in the design of future materials. An information based modeling approach has been employed in the design and generation of tumor homing and cell penetrating molecules to test their efficacy as future drug delivery vehicles

Laboratory for Stem Cell Engineering and Regenerative Medicine (Prof. Rajkumar P. Thummer)

The lab focuses on generation of transgene-free induced pluripotent stem cells for biomedical applications and understanding the role of core stem cell-specific transcription factors in maintaining stem cell identity and function.

Molecular Microbiology Laboratory (Prof. Manish Kumar)

The research interests of the lab include (i) Molecular interaction of host-pathogen-vector of infectious diseases, (ii) Gene expression analysis of *Spirochete*, *Leptospira interrogans* and *Borrelia burgdorferi*, (iii) Development of vaccine against outer membrane protein of *Leptospira interrogans* and *Borrelia burgdorferi*, and (iv) Vector borne diseases of Zoonotic importance.

Mechanistic Approaches to Biology Lab (MAB) (Prof. B. Anand)

The laboratory employs a combination of approaches encompassing Bioinformatics & Computational Biology, Biochemical and Biophysical approaches and X-ray crystallography. The current research interest of the lab pertains to RNA Biology and Molecular Evolution.

Molecular Networks and Recombinant Therapeutics (Prof. Biplab Bose)

The lab is interested in understanding the inter-connected cellular communication systems. Particularly, the lab is interested to know the effect of architecture, kinetics and integration of the molecular pathways on vital cellular processes. The lab uses experimental as well as theoretical tools to understand how information is carried and processed in such signaling networks. The lab is also involved in developing molecules that can target particular signal transduction pathway. Such a molecule can be used to modulate an aberrant pathway involved in a particular disease.

Malaria Research Group (Prof. Vishal Trivedi)

The lab focuses on generation of transgene-free induced pluripotent stem cells for biomedical applications and understanding the role of core stem cell-specific transcription factors in maintaining stem cell identity and function.

Laboratories & Facilities

Plant Tissue Culture & Secondary Metabolite Production Lab (Prof. Rakhi Chaturvedi)

The tree species with long generation cycle are mostly highly heterozygous in nature due to strict cross pollination and are considered to be recalcitrant. The genetic improvement of these plants and development of homozygous lines is either very challenging or impossible using the conventional methods, because the cross pollination is a rule. This limitation has completely been overcome by the research group of Dr Chaturvedi while working on two complex tree species, Neem and Tea (Camellia species). Prof. Chaturvedi's laboratory has also involved in developing Plant Cell Culture Technology as an alternative to whole plant extraction for the production of secondary metabolites of medicinal and commercial values.

Neurospora Research Group (Prof. Ranjan Tamuli)

The lab is interested to understand the molecular mechanism of calcium signaling pathway using the model filamentous fungus *Neurospora crassa*. Calcium ion is a universal second messenger molecule that impacts almost all cell processes in eukaryotes. The lab hopes to extend its research to understand the role of calcium signaling in memory, learning, and other related areas in future.

Fungal Biotechnology Lab (Prof. Gurvinder Kaur Saini)

The laboratory works in fungal biotechnology. The various aspects that are studied include (i) secondary metabolite production, (ii) development of hyper virulent strains of *Metarhiziumanisopliae* and *Beauveria bassiana* using scorpion and spider neurotoxins, (iii) gene stacking in entomopathogenic fungi.

Organelle Biology and Cellular Ageing Lab (Prof. Shirisha Nagotu)

The lab focusses on understanding the biogenesis of organelles and the inter-organelle communication within a cell. The lab tries to understand the effect of ageing on organelle biology and the role of organelles in cellular ageing.

Prof. Kannan Pakshirajan's Lab (Prof. Kannan Pakshirajan)

The research interests of the lab are Environmental Biotechnology, Biological removal and recovery of inorganic compounds from wastewaters, Biofuels and other Biotechnological Products: production, process design, kinetics and environmental applications.

Carbohydrate Enzyme Biotechnology Lab (Prof. Arun Goyal)

The lab research interests include Microbial Biotechnology, Molecular Biology, Protein Engineering, Structural & Functional studies of carbohydrate enzymes.

Laboratories & Facilities

Cancer Therapeutics Lab (Prof. Siddhartha Sankar Ghosh)

The laboratory focuses on development of new generation gene therapy vectors. This mainly includes development of suicide gene therapy for cancer. The lab has also set up infrastructure facilities for interdisciplinary collaborative research in the field of nanoscience and nanotechnology supported by extramural funding at the Centre for Nanotechnology, IIT Guwahati. The major area is to develop new nanoparticles, nanocomposites and nanocarriers and evaluate their antimicrobial and anticancer activities. The lab is perusing research to understand molecular mechanisms of nanoparticle mediated cell cytotoxicity.

Protein Biophysics Lab (Prof. R. Swaminathan)

The lab investigates the structure, function and dynamics of proteins using techniques like UV-Visible spectroscopy and Fluorescence Spectroscopy. Recently our group has discovered a novel UV-Vis absorption band in proteins that are rich in charged amino acids like K, D, E, R and H called Protein Charge Transfer Spectra or ProCharTS. Currently our lab has initiated work to investigate the role of histones, nucleosomes and chromatin in cellular functions using the above approaches.

Structural and Computational Biology Lab (Prof. Shankar Prasad Kanaujia)

The lab uses the knowledge of various techniques such as molecular biology, structural biology (X-ray Crystallography) and biophysical and biochemical studies to understand the mechanism of different biological functions. In addition, the lab applies the molecular dynamics simulations to further corroborate the results obtained from various experiments. Currently, the lab is focusing on investigating into the mechanisms involved in protein translation initiation, ABC transporters and their role in multidrug resistance.

Stem Cell and Cancer Biology Group (Prof. Bithiah Grace Jaganathan)

Stem cell and cancer biology group focuses on the identification of factors affecting the differentiation of mesenchymal stem cells and the role of cancer microenvironment in cancer chemoresistance.

The Molecular Endocrinology Lab (Prof. Anil Mukund Limaye)

The laboratory focuses on the following research themes: (i) Hormone regulation of gene expression, (ii) Role of estrogen in breast tumor invasion and metastasis, (iii) Regulation of cystatin A expression and its role in breast cancer, (iv) HoxB2 in breast cancer, (v) GPR30/GPER-1 biology, (vi) Mechanisms of anticancer activity of EGCG, (vii) Karanjin and its biological effects

Prof. V. V. Dasu Lab (Prof. V. V. Dasu)

The laboratory focuses on establishing a rigorous program devoted to the development, implementation, and mechanistic evaluation of novel approaches to assay and understand cholestatic liver disease

Laboratories & Facilities

Hepatobiliary Translational Mechanobiology Lab (Prof. Kapish Gupta)

The Lab's research goal is to establish a rigorous program devoted to the development, implementation, and mechanistic evaluation of novel approaches to assay and understand cholestatic liver disease. The lab is working on: (1) Assay development for hepatocellular cholestasis, (2) Assay development for ductular cholestasis, (3) Immune cells in drug-induced ductular cholestasis: duct-on-a-chip, (4) Investigate the impact of stretching on neonatal EHBD cholangiocyte susceptibility, (5) Toxin-induced biliary atresia and genetical susceptibility, (6) The role of mechanics on maintenance of hepatocyte organoid differentiation. (7) Regulating lumen budding using engineered geometrical patterns. (8) Developing methodology to obtain patient-specific liver cells. (9) Developing personalised cholestatic assays. (10) Developing personalised therapeutics for cholestatic conditions.

Computational Lab

The computational lab is used for carrying out the Bioinformatics and Computational Biology Lab, a lab course of the B. Tech. curriculum.

Experimental Teaching Laboratory

The laboratory is used to conduct the experimental course of the B. Tech. and M.Tech. curricula.

Achievements

Faculty distinctions

Prof. Pranab Goswami's team was granted patents for a paper-based methanol detection kit and an enzymatic biofuel cell.

Dr. Kusum Kumari Singh and Prof. B. Anand convened the SERB-funded national "12th RNA Group Meeting" in May 2024 for 130–150 participants.

Dr. Kapish Gupta coordinated the BSBE Alumni Meet for 100 attendees in October 2024.

Dr. Lalit Mohan Pandey organized an international curtain-raiser on Indian Knowledge Systems in April 2024 for over 200 people.

Dr. Lalit Mohan Pandey organized the international conference "UNIKAA 2024" in October for over 350 attendees.

Dr. Lalit Mohan Pandey organized the national "Leadership Summit 2024" in October, drawing 1,000 participants.

Dr. Lalit Mohan Pandey organized the national "BSBE Alumni Meet 2024" in October for 100 attendees with industry sponsor support.

Prof. Ranjan Tamuli organized a national genetics event in October 2024 for about 50 participants, funded by the Indian Academy of Sciences.

Prof. Ranjan Tamuli served on the organizing committee for the international "India International Science Festival (IISF) 2024" with over 15,000 participants.

Prof. Biman B. Mandal and Prof. B. Anand are recipients of the Swarnajayanti Fellowship.

Prof. Biman B. Mandal and Prof. Latha Rangan are fellows of the National Academy of Sciences India (NASI).

Prof. Arun Goyal was named among the Top 2% Scientists globally by Elsevier and Stanford University.

Dr. Himanshu Singh was appointed Visiting Faculty at Masaryk University, Czech Republic.

Prof. Kannan Pakshirajan received the Springer Nature Journal Author Award.

Dr. Kusum K. Singh was elected Member of the National Academy of Sciences, India (NASI).

Prof. Lalit M. Pandey won the BRSI Prof. S B Chincholkar Memorial Award for biotechnology contributions.

Prof. Latha Rangan received the ABAP Senior Scientist Award in Biotechnology.

Prof. Rajaram Swaminathan received the Biophysical Society 2026 Travel Award to present in San Francisco.

Prof. Rakhi Chaturvedi won the Springer Nature "Her Research, Our Future" Award.

Prof. Sachin Kumar was named Fellow of the Indian Association of Veterinary Microbiologists (IAVMI).

Dr. Shirisha Nagotu: AGI Mid-Career Lady Gerontologist Award (2024).

Prof. B. Anand: DBT S. Ramachandran-National Bioscience Award (2023).

Prof. Biman B. Mandal: IOP Publishing Top Cited Author Award (2023).

Prof. Rakhi Chaturvedi: Featured in She Is: 75 Women in STEAM by PSA Office & British High Commission (2022).

Faculty distinctions

Prof. Shankar Prasad Kanaujia: Appointed Adjunct Faculty at University of Allahabad (2022).

Prof. Biman B. Mandal: Featured in Vigyan Prasar's 75 under 50: Scientists Shaping Today's India (2022).

Prof. Utpal Bora: Appointed Member, Board of Research Studies, Mizoram University (2022).

Prof. Latha Rangan: IIT Guwahati Woman Faculty Research and Innovation Award (2022).

Prof. Biman B. Mandal: Inducted into the Editorial Team of ACS Biomaterials Science and Engineering.

Prof. Latha Rangan: Selected for NASI Dr. P. Sheel Memorial Lecture (Young Women Scientist) Award.

Dr. Sachin Kumar: Selected for ICMR Award for virology research in India.

Dr. Ajay Kunnumakkara: Appointed Visiting Scientist at AIST, Japan (2019).

Dr. Souptick Chanda: Fulbright-Nehru Fellowship to conduct research at Harvard Medical School (2019).

Prof. Arun Goyal: Nominated Member, DBT-NER Technical Expert Committee (2018).

Dr. Biman B. Mandal: Featured on 3 cover pages of ACS & RSC journals for silk tissue engineering (2018).

Dr. Kusum Singh: DBT Biotechnology Overseas Associateship for NER Scientists (2018).

Prof. Pranab Goswami: Outstanding Reviewer Award for Journal of Photochemistry and Photobiology B (Elsevier, 2018).

Prof. Arun Goyal: Nominated Member, DBT-NER Technical Expert Committee (2018).

Dr. Biman B. Mandal: Featured on 3 cover pages of ACS & RSC journals for silk tissue engineering work.

Dr. Kusum Singh: DBT Biotechnology Overseas Associateship for NER Scientists (2018).

Dr. Pranjal Chandra: BRSI Young Scientist Award and SEFG Young Engineers Award (2018).

Prof. Pranab Goswami: Nominated DBT-NER Steering Committee Member (2018).

Dr. Souptick Chanda: Received Fulbright-Nehru Fellowship for Harvard Medical School (2019).

Prof. Ranjan Tamuli: Appointed Research Advisor, Nanyang Academy of Sciences, Singapore (2018).

Dr. Lalit M. Pandey: IEI Young Engineers Award in Environmental Engineering (2017–2018).

Prof. Latha Rangan: Elected Fellow of National Academy of Sciences, India (FNASc, 2017).

Dr. Sachin Kumar: NASI SCOPUS Young Scientist Award (2016).

Prof. Arun Goyal: BRSI Malaviya Memorial Award – Senior Faculty (2016).

Prof. Rakhi Chaturvedi: Newton-Bhabha Leading Women Scientist Award (2016).

Prof. Latha Rangan: BRSI Women Scientist Award (2016).

Dr. B. Anand: INSA Medal for Young Scientists (2015).

Dr. B. Anand: Selected Associate, Indian Academy of Sciences, Bangalore (2015).

Dr. Biman B. Mandal: INSA Medal for Young Scientists (2015).

Prof. Latha Rangan: Assam Science Society Dr. JN Baruah Memorial Award (2014).

Dr. Biman B. Mandal: NASI-SCOPUS Young Scientist Award (2016).

Achievements

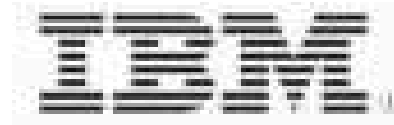
Student distinctions

Smrity Sonbhadra: Second Prize in Oral Presentation at EnRISE 2026, IIT Indore (2026).
Darshani Sardar Chopade: Best Poster Presentation Prize at 22nd AGI Conference, AIIMS New Delhi (2026).
Smrity Sonbhadra: Best Oral Presentation Award at Biofuels and Bioenergy Conference, Edinburgh (2026).
Sourabh Chakraborty: Best Poster Award at RNA India Meeting, IISc Bangalore (2026).
Jeevanantham Sathasivam: Best Oral Presentation Award at ICERSC 2026, IIT Madras (2026).
Himanshi Devi: Student Research Achievement Award for Poster at 70th Biophysical Society Meeting, San Francisco (2026).
Deepa Mehta: 1st Position in Oral Presentation at IAVMICON 2026, Shirwal (2026).
Soham Basu: Third Prize in Poster Competition at Japan-NER Symposium, IIT Guwahati (2026).
Sonu S. S.: Best Poster Presentation Award at National Conference on Biochemistry & Biotechnology, RPCAU Pusa (2026).
Naorem Bela Devi: Best Poster Presentation Award at ICAER 2025, IIT Bombay (2025).
Soham Basu: Best Poster Award at 13th International Conference on Yeast Biology, IISc Bengaluru (2025).
Jothika J.: Best Oral Paper Award at SCOPE 2025, IIT Kanpur (2025).
Tanveera Rounaque Sarhadi: DBT-CTEP Travel Grant for EMBO Workshop, Italy (2025).
Isha Kashyap: ANRF International Travel Grant for EMBO Peroxisome Workshop, Spain (2025).
Rakshita Mehta: Commendation Prize at HPCL New Generation Ideation Contest, Bengaluru (2024).
Ayushi Rehman: Selected EMBL Event Reporter with Travel Grant at EMBL-Heidelberg (2025).
Krishna Kant Pachauri: 1st Position in Oral Presentation at PTCAI & CTCPB-2025, BITS Pilani Goa (2025).
Chetna Sharma: 3rd Position in Poster Presentation at PTCAI & CTCPB-2025, BITS Pilani Goa (2025).
Ragavan Chandrasekar: Best Oral Presenter at ICESD 2025, BHU Varanasi (2025).
Harish Kumar, Mohammed Askkar Deen & Sulaiha Juvairiya: First Prize (₹1 Lakh) at Vishwakarma Awards 2024, IIT Hyderabad.
Isha Kashyap: Best Poster Presentation Award at 21st AGI Conference, NIHFW Delhi (2024).
Rashmi Singh: 3rd Prize in Best Poster Presentation at Winter Symposium & SouthZone MICROCON 2024, CMC Vellore (2024).
Adhithya B., Mohd. Asif Idrisi & Nirmal Sarkar: 1st, 2nd, and 3rd Prizes for Poster Presentation at BioSangam 2024, MNNIT Allahabad (2024).
Satyam: Best Product Design Award at Vishwakarma Awards 2023, IIT Delhi (2024).
Shaurya Dumka: 2nd Award for Best Poster Presentation at VII SVBBI Convention, ICAR-IVRI Bareilly (2023).
Naorem Bela Devi: Best Oral Presentation at NOET-2023, IIT (ISM) Dhanbad (2023).
Krishna Kant Pachauri: SERB-DST International Travel Grant for 15th IAPB Congress, South Korea (2023).
Soumyadeep Sarkar: Novel Intraoperative Device Award at MEDHA 2023, IIT Bombay (2023).
Shaurya Dumka: Best Oral Presentation Award at IAAVR Conference, Anand (2023).
Anjali Gupta: Best Poster Presentation at 63rd AMI Conference, MDU Rohtak (2023).
Plaboni Sen: Asima Chatterjee Memorial Award at 7th World Cancer Congress, Bangalore (2022).
Shirish Kathane, Sam Mathew, Atreeye Borthakur, Chinmaya Panda, Jyoti Ray, Kodieswaran M., Sujisha Nambiar, Naveen Kumar & Smrity So: PMRF Fellowship (May 2022).

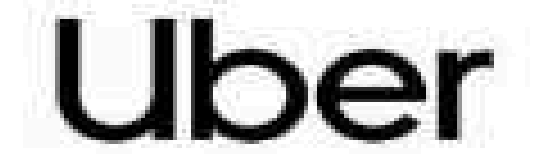
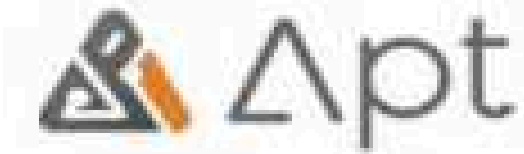
Student distinctions

Kamal Shokeen: Best Oral Presentation Award at VIROCON-2022, Srinagar (2022).
Parmeshwar Gavande: Best Oral Presentation Award at ICBBT-2022, Bali, Indonesia (2022).
Jaideep Singh Bhardwaj: Prime Minister Fellowship for Doctoral Research with Orthotech India (2022).
Parmeshwar Gavande: InSc Young Researcher Award by Institute of Scholars, Bangalore (2022).
Imnanaro: Assam Bio-Innovation Fellowship Award by ABTC, Govt. of Assam (2022).
Sandra Jose, Arisha Arora & Sandhya S.: PMRF Fellowship (2022).
H. Krishna Kumar: AWSAR Award 2021 (2022).
Chandi Patra: Best Rapid Presentation & Poster Award at BRE3CH-2021 (2021).
Shreya Bhattacharya, Amay Redkar, Prabir Das, Priyanka Yadav, Harish Kumar, C. Ragavan, Neha Unnoony, Uzini Daimary, Thirukumaran K., Kalyan Ghosh & Ansuman Sahoo: PMRF Fellowship (2021).
Aviral Kumar, Kalpana Kumari & Pradeep Sundaravadivelu: PMRF Fellowship (2020).
Amit Bhandari, Arvind R., Das Bedadeep & Tania Sarkar: Samsung Fellowship Award (2021–2022).
Vartika Srivastava: Hope E. Hopps Award at SIVB Annual Meeting, USA (2021).
Parama Dey: ICGP Award by National Institute for Materials Science, Japan.
Kamal Shokeen: Deepika Phukan Oncology Research Grant by BBCL.
Debika Dutta: American Peptide Society Travel Grant for American Peptide Symposium, California (2019).
Phurpa Dema Thungon: SERB-UAlberta Overseas Visiting Doctoral Fellowship, Canada (2019).
Ishani Chakrabartty: AWSAR Award for Best Science Story (PhD category), DST (2019).
Sanjay M.: 1st Prize at Redstart Startup Challenge, Research Conclave 2019, IIT Guwahati (2019).
Ishani Chakrabartty: 1st Prize in Oral Presentation at IJBS'17, IIT Guwahati (2018).
Angshu Dutta: Best Poster Award at Research Conclave 2018, IIT Guwahati (2018).
Yoganand K.N.R.: AWSAR Award by DST, Govt. of India (2018).
Pratik Nag: PMRF Fellowship (2018).
Ishani Chakrabartty: 1st Prize for Best Poster at TRNPTU, IASST Guwahati (2017).
Angshu Dutta: Best Poster Award at Research Conclave 2018, IIT Guwahati (2018).
Prerana Gogoi: Best Poster Award at 45th NSC, IIT (BHU) Varanasi.
Hasnahana Chetia & Debajyoti Kabiraj: NGBT Conference Partial Scholarship, Odisha (2018).
Devivasha Bordoloi: Best Oral Presentation Award at ICTBB Research, Varanasi (2018).
Ganesan Padmavathi: Best Poster Presentation Award at 7th ITCR, Chennai (2018).
Devivasha Bordoloi: Best Oral Presentation Award at 5th AIST Workshop, Japan (2018).
Sajitha: 3rd Position in Oral Presentation at IIT Roorkee (2017).
Ritesh Kumar, Gundappa Saha & Prachi Bhalla: Best Department Poster at Research Conclave 2017, IIT Guwahati.
Deepanjalee Dutta & Sunil Kumar Sailapu: Top 15 Proposal Selection at Assam Biotech Conclave (2017).
Javadi Monisha: Best Oral Presentation Award at INCD-2016, Goa (2017).
Nand Kishor Roy: Best Poster Presentation Award at INCD-2016, Goa (2017).
Ganesan Padmavathi: Best Oral Presentation Award at INCD-2016, Goa (2017).
Devivasha Bordoloi, Anuj Kumar Singh: Best Oral Presentation Award at INCD-2016, Goa (2017).

Past Recruiters



Past Recruiters



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