



## One Week Short Term Training Program

On

## Integrating Omics and AI in Biomanufacturing

20<sup>th</sup> - 24<sup>th</sup> April, 2026



Organized by:

**Association of Indian Universities -  
Gautam Buddha University Academic &  
Administrative Development Centre  
(AIU-GBU AADC)**

at SoBT, GBU, Yamuna Expressway, Greater Noida, Gautam Budh Nagar, Uttar Pradesh

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Dr. Barkha Singhal, SoBT, GBU

### Co-CONVENERS

Dr. Nisha Gaur, SoBT, GBU  
Dr. Upma Pal, SoBT, GBU

### FACULTY ORGANIZING TEAM

AIU Working Committee members  
USoBT Faculty members

### ADVISORY COMMITTEE

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Prof. Subodh Kesharwani, IGNOU, New Delhi  
Prof. Rajiv Kumar Goel, DU, New Delhi

### IT SUPPORT

Dr. Sandeep Rana, System Manager, CCC, GBU  
Mr. Rajkumar, Technical Superintendent, CCC, GBU

### TOPICS TO BE COVERED

- Fundamentals of Omics & AI in Biomanufacturing
- Systems Biology and Multi-Omics Integration for Microbial Cell Factory Design
- Metabolic Engineering and Strain-to-Process Mapping Using Omics and AI
- AI-Driven Bioprocess Design, Optimization and Quality-by-Design in Microbial Manufacturing
- Next-Generation Biomanufacturing Platforms: From Metabolomics to Bioactives

## About the University

Gautam Buddha University, established with government funding on a sprawling 511-acre lush green campus in Greater Noida, is committed to fostering multidimensional growth through education, training, and research. Establishing incubation cells and strategic collaborations through various Memoranda of Understanding (MOUs) with industry leaders and research organizations further enhances the entrepreneurial environment. The academic programs at Gautam Buddha University are designed in line with the best universities worldwide, blending top-tier pedagogy, classroom teaching, and hands-on experiential learning. The focus on value-based education is further reinforced by establishing eight specialized schools. These include the School of Vocational Studies, School of Biotechnology, School of Engineering, and School of Information and Communication Technology, offering undergraduate, postgraduate, and doctoral-level studies in various scientific disciplines, including interdisciplinary domains. This holistic approach ensures that students and faculty have the resources to excel and contribute to developing knowledge, technology, and innovation.

Visit us @ <http://www.gbu.ac.in>

## About the School

The University School of Biotechnology is housed in a state-of-the-art building with advanced teaching and research facilities. The school boasts well-equipped research laboratories and a team of highly skilled faculty members who are committed to academic excellence and innovation. Many of our faculty members have secured extramural funding from various national agencies, reflecting their active

involvement in cutting-edge research. The department is also proud to hold several patents and is engaged in numerous pioneering projects that contribute to the advancement of biotechnology. Our program aims to produce graduates and postgraduate professionals with in-depth knowledge and expertise in the rapidly evolving biotechnology field. The curriculum emphasizes emerging areas such as Genetic Engineering, Bioinformatics, Microbiology, Immunology, Cell and Molecular Biology, Bioprocess Engineering, IPR & Bioentrepreneurship, and Biotechnology Innovations.

## About the STTP

This STTP directly aligns with India's BioE3 policy as it integrates omics, systems biology, metabolic engineering, and artificial intelligence to address critical challenges in microbial biomanufacturing. By bridging strain design with bioprocess optimization, the program equips participants with a holistic understanding of modern microbial cell factory development. The training emphasizes data-driven decision-making, quality-by-design, and next-generation manufacturing platforms, enabling reproducible, scalable, and sustainable bioprocesses.

## Speakers

Reputed Scientists, Academicians &  
Industry professionals

## Participants:

All Faculty and Research Scholars, Students

## Session Timings:

**Session: 03:00 pm - 05:00 pm**

**Certificate will be provided to all participants**

**Last date of Registration: 10<sup>th</sup> April, 2026**

## Registration Link :

<https://forms.gle/U8oQyg6y6ibdt5ht8>

## Registration Fee:

Registration Fees for participants: Rs 500/- rupees

The account details for online payment are -

**Name of Beneficiary:** Gautam Buddha University

**Account No. :** 6660000100000025

**IFSC Code :** PUNB0666000

**Branch:** PNB, GBU, Greater Noida

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