

Application form for BPSDP on Biotechnology – 2025

at NIT Rourkela (23rd August 2025)

Registration link: <https://forms.gle/OrepaTpAvppfmViq8>

Submit this form during program reporting.

1. Full Name: (BLOCK) :
2. Class :
3. School /Organization :
4. Mailing Address :
5. Contact details :
Mobile no: (Preferably WhatsApp) :
Mobile no: (Alternate) :
Email :
6. Permanent Address :
7. Sex : Male / Female / Transgender
8. Date of Birth & Age :
9. Marks secured at 10th class :
10. Whether participated any training :
programme previously Yes / No
If YES, furnish details: :

This is certified that all the facts stated above are true and correct to the best of my knowledge.

Date: -----

Signature of the participant: -----

Recommendation from the School : YES / NO

Signature of the Class Teacher: -----

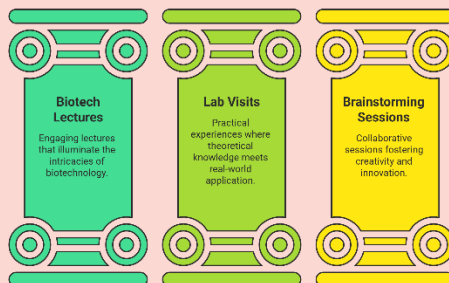
Signature of the Principal: -----

The official language for the programme will be English for all purposes. All correspondence will be entertained only in English. You can also visit www.nitrkl.ac.in to download the registration form and other information.

STUDENT COORDINATORS:

Muhil: 96681 11661 (WhatsApp)
Srejoyee: 91236 70343 (WhatsApp)

PROGRAM OVERVIEW



ORGANIZING COMMITTEE MEMBERS

Prof. A Thirugnanam, Professor
Prof. Subhankar Paul, Professor
Prof. Kunal Pal, Professor
Prof. Krishna Pramanik, Professor
Prof. Nandini Sarkar, Associate Professor
Prof. Nivedita Patra, Associate Professor
Prof. Angana Sarkar, Associate Professor
Prof. Kasturi Dutta, Associate Professor
Prof. Amit Biswas, Associate Professor
Prof. Amrita Singh, Assistant Professor
Prof. Anamika Singh, Assistant Professor
Prof. Anju R. Babu, Assistant Professor
Prof. Bala Chakravarthy Neelapu, Assistant Professor
Prof. Bibhukalyan Prasad Nayak, Assistant Professor
Prof. Earu Banoth, Assistant Professor
Prof. Lohit Kumar Srinivas Gujjala, Assistant Professor
Prof. Mirza Khalid Baig, Assistant Professor
Prof. Prasoon Kumar, Assistant Professor
Prof. Ravi Kanth Avvari, Assistant Professor

CHAIRPERSON:

Dr. Devendra Verma, Associate Professor,
Head of the Department,
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ORGANISING SECRETARY:

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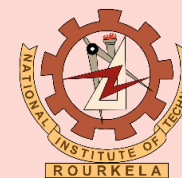
**The Biotech Research Society, India
Supported**

**BIOTECHNOLOGY POPULARIZATION AND
SKILL DEVELOPMENT PROGRAMME
[BPSDP - 2025]**

23rd August 2025

PATRON

**PROF. K. UMAMAHESHWAR RAO
DIRECTOR, NIT ROURKELA**



CHAIRPERSON

**Dr. DEVENDRA VERMA
Head, BM Dept, NIT Rourkela**

COORDINATORS

**Dr. P. BALASUBRAMANIAN
Dr. J. SIVARAMAN
Dr. BIKASH CHANDRA MAHARAJ**

**Department of Biotechnology and
Medical Engineering
National Institute of Technology
Rourkela,
Odisha, India – 769 008**

ABOUT THE INSTITUTION

National Institute of Technology Rourkela (NIT Rourkela) is an institute of national importance created under the act of parliament. NIT Rourkela has been placed within 801-1000 in Times World University rankings for higher education under "Engineering and Technology" category. QS University Rankings also figured NIT Rourkela in the place of 317 among Asian universities. NIRF ranking 2024 has figured NIT Rourkela at 19th position in the *Engineering* category; 30th position in *Research* category and 34th position in *Overall* category.

NIT Rourkela provides quality education in a diverse and multicultural environment. The institute's mission is to become an internationally acclaimed institution of higher learning that will serve as a source of knowledge and expertise for society and be a preferred destination for undergraduate and graduate studies. The institute is offering Ph.D. and M.Tech. Research programs in 21 branches of Engineering, Management and Science. The institute research centers are engaged in consultancy, research and developmental activities of several bodies such as DST, DBT, DAE, CSIR, DRDO, BARC, ISRO and other private industries.

ABOUT THE DEPARTMENT

Department of Biotechnology and Medical (BM) Engineering was started in August 2007 and, currently has 24 faculties each having Ph.D. degree from reputed institutions in India and Abroad. All faculties are actively engaged in Research activities and, each of them has at least one sponsored research project per faculty from governmental agencies such as DST, DBT, CSIR, ICMR, SERB, etc. The department has also been successful in receiving research assistance from DBT Program Supports (~3.4 Cr.), MHRD-FIST (~2.5 Cr.) and MHRD-TEQIP (~5.0 Cr.). These financial supports from different governmental agencies has buttressed the research infrastructure developed from the Institutional Plan grant.

The department also has well-developed laboratories for Cell and Molecular Engineering, Gene Manipulation, Protein Engineering, Structural Biology and Nanomedicine, Computational Biology, Bioinformatics, Smart Agricultural Lab, Environmental Biotechnology Lab, Bioprocess Engineering, Rehabilitation and Regenerative Medicine, Stem Cell Culture, Smart Materials, Scaffold Fabrication, Biomaterials and Tissue Engineering, Biomechanics and Biotransport, Anatomy and Physiology and, Medical Electronics and Instrumentation Laboratory. Recently, the department has also developed a 'Clean Room Facility'. Utilizing these facilities, our department can conduct high-quality research that is published in Peer-reviewed international Journals. On average, our department publishes more than 50 SCI-indexed publications per year and has filed five patents in the last five years.

ABOUT THE GENESYS

GENESYS is a student club of BM Dept, aimed to sensitize the significance of biotechnology/life science among students. GENESYS outreaches various club activities like school exhibitions, bio-quiz, and expert talks.

ABOUT THE BRSI

BRSI is a non-profit, scientific, professional society dedicated to promoting excellence and competence in the field of biotechnology for the benefit of humankind.

- ✓ To promote research and development in biotechnology in India
- ✓ To enable interaction between academic institutes and biotech industries, help them resolve problems, as well as make them aware of the latest developments in the biotech sector
- ✓ To provide training in biotechnology, organize lectures, seminars and symposia on scientific programs and societal missions

ABOUT THE PROGRAM

As appeared in Chemical Weekly of 21st Nov' 2000, "*All hopes of human being lie in the solutions likely to be provided by Biotechnology to our problems and needs in the coming years. Biotechnology will bring about unprecedented changes in the technological and industrial life of the 21st century. Its impact will almost certainly be greater than that of the information technology revolution. With these expectations and corresponding efforts of rest of the world, India has to think more seriously for the development of Biotechnology sector*".

Engineering principles are convincing. Physics and Chemistry basis of technology is considered straightforward and reproducible, but Life Science / Biotechnology is less understood and is also less trusted. The early stage of life science / Biotechnology industry has experienced more problems in repetition of performance; forecasting and that impact have not been fully forgotten. Now with biotechnology developments, uncertainties have considerably reduced.

Keeping this in mind, an initiative has been taken to motivate school and college children to pursue their careers in biotechnology-based entrepreneurial skill development. The aim is to provide basic needs of the communities while safeguarding the needs of future generations of youth.

The BPSDP on *Biotechnology* is designed to develop entrepreneurial motivation and competencies to initiate and advance in setting up an enterprise. The course content will aim to train the prospective entrepreneurs on both fundamental and advanced level industrial biotechnology and business skills by focusing on the following topics, but not limited to;

- Covers various aspects of biotechnology and bio-engineering
- Focuses on the latest developments in the bioprocess field, including biofertilizers, biofuel technologies
- Biotechnological Innovations in Agriculture, Health and Industry shaping our present and future

The pedagogical methods envisaged to adopt are as follows:

- ✓ Hands-on practice sessions
- ✓ Interaction with experts in biotechnological skill development
- ✓ Lab visits to industry and exhibitions
- ✓ Successful case studies on biotechnology entrepreneurs
- ✓ Product development in the biotechnology sector

HOW TO APPLY

A total number of fifty potential applicants will participate in BPSDP. Interested candidates register through online <https://forms.gle/OrepaTpAvppfmViq8> and may submit a short write-up about the program's utility for the candidate. **No course fees will be collected from the participants for availing of this BPSDP.**

TARGET GROUP

The course is open to secondary / higher secondary students from the schools and undergraduate courses located in and around Rourkela or from the entire Odisha state.

MODE OF SELECTION

The screening committee from the corresponding schools will make a selection of the participants for the BPSDP 2025 based on their eligibility and interest. Upon recommendation by the class teacher and school principal, the applications will be screened at the department and the selected candidates' list will be communicated to the schools.

TRAVEL AND ALLOWANCES

The participants will have to make their travel arrangements. However, high tea/snacks and a working lunch will be provided at the venue during the programme.