



Dept. of Biotechnology and Medical Engg., and Dept. of  
Mechanical Engg. (NIT Rourkela) in association with  
National Institute of Technology Uttarakhand



# International Conference on Biological Innovation, Technology, Engineering and Sciences (BITES-2024)

18<sup>th</sup> -20<sup>th</sup> December 2024



## Event Highlights



Oral Presentation, Poster Presentation,  
Scientific Photography, Bio Idea Pitch

## Team

**PATRON:** Prof. K. Umamaheshwar Rao,  
Director, NIT Rourkela

**CHAIRMAN:** Prof. Devendra Verma, HoD, BM

**CONVENORS:** Prof. Ravi Kant Avvari,  
Prof. Dharmendra Tripathy (NIT UK)

**CO-CONVENORS:** Prof. Prasoon Kumar,  
Prof. Earu Banoth,  
Prof. Kishore Singh Patel (ME)

## Registration

**Abstract submission** : 30 Sep 2024

**Acceptance of abstract** : 15 Oct 2024

**Registration** : 15 Oct 2024

\*late registration charges of 20% extra

**Website:** <https://bites-2024.nitrkl.ac.in/>

**Registration link –**

<https://forms.gle/s1hdv4Q9s1uoskPu9>

**Abstract submission link –**

<https://forms.gle/YjRAw5J5uQAPjPcUA>



**CONFERENCE NIT ROURKELA**  
2804180418@sbi

## About the Conference

The conference aims to provide an excellent platform for engineers, scientists, researchers, and professionals to share knowledge and experiences on the dynamics of the interdisciplinary approaches in solving problems of relevance to bioengineering covering major domains of Biological Innovation, Technology, Engineering and Sciences. The conference will serve as the best platform to learn and share new ideas in the area by connecting the stakeholders involved, particularly students, faculties, engineers, doctors, entrepreneurs, incubators, and enthusiasts. Further, the conference will also inspire the new generation of bioengineers to come up with novel, translatable ideas to meet the needs of the national and international community.

### About NIT Rourkela

NIT Rourkela (the erstwhile Regional Engineering College, renamed on 26th June 2002) is one of the institutes of national importance under the Ministry of Education, Government of India. The government of India has elevated the Regional Engineering College, Rourkela to an autonomous institution under the name of the National Institute of Technology, Rourkela. <https://nitrkl.ac.in>

### About the Department - BM

The Department of Biotechnology and Medical Engineering was established in 2007 to provide a multidisciplinary research and teaching program in Biotechnology and Medical Engineering that advances a fundamental understanding of how biological systems operate and to develop effective biology-based technologies for applications across a wide spectrum of societal needs including innovations in diagnosis, therapy of human diseases, design of novel biomaterials, biomedical devices, and in solving environmental hazard. The faculty members have diverse research interests and they conduct both basic and applied research in diverse areas such as Cell & Molecular Engineering, Tissue Engineering & Biomaterials, Bioprocess Engineering, Environmental & Plant Biotechnology, Biomechanics & Bio transport Engineering, and Medical Electronics & Instrumentation.

### Registration

Please register for the conference using the following link  
#

Participants	Indian	Foreign
UG/PG Students	Rs. 2500	USD 75
Research Scholars	Rs. 4000	USD 100
Academicians	Rs. 6000	USD 150
Industry	Rs. 8000	USD 250

Registration includes – conference kit, high tea, breakfast and lunch (GST incl.). #registration for student/ staff of NIT Rourkela is free; Accommodation will be arranged at the campus, subject to availability and charges payable by the participant.

**Payment** may be made using QR code (see first page) or using online transfer in favor of “Conference, NIT Rourkela” payable at SBI, NIT Branch to Account No.: 36734418111, IFSC: SBIN0002109, MICR: 769002007, SWIFT: SBININBB137

**For more further details please visit the website**  
<https://bites-2024.nitrkl.ac.in/>

### About NIT Uttarakhand

National Institute of Technology, Uttarakhand (NITUK) is an Institute of National Importance. Since its inception, this Institute has grown in many fields and has established itself as one of the best Technical Educational Institutes. NITUK is established in 2009 under the Act of Parliament by the Ministry of Education (Shiksha Mantralaya). <https://www.nituk.ac.in/>

### About the Department - ME

Mechanical Engineering is often called the mother of all engineering. It covers a host of subjects: properties of materials, structural design, material processing, manufacturing, heat engines, refrigeration and air conditioning, industrial management, robotics and much more. The Mechanical Engineering Department of NIT, Rourkela is known for research in most of these fields. The main foci of research are on mechanical vibration, robotics, CAD/CAM, precision engineering, Metal forming, manufacturing, CFD, Industrial refrigeration and Cryogenics.

### Theme of the Conference

*"The Future of Biological Innovation"* serves as a compelling focal point for the conference, offering a platform to explore a diverse array of topics. This theme delves into emerging technologies and pioneering research, focusing on how technology and engineering are unlocking new potentials in biological research, sharing ideas, and addressing challenges in the field.

The conference covers topics in biosciences and bioengineering area from an interdisciplinary perspective, but not limited to, such as – Cell & Molecular Engineering, Tissue Engineering & Biomaterials, Bioprocess Engineering, Environmental & Plant Biotechnology, Biomechanics & Biotransport Engineering, and Medical Electronics & Instrumentation.

**Note:** Scopus and Web of Science indexed publications will be added after the final consent from the publishers related to the theme of the conference.

### Sponsorship

BITES-2024 will serve as a platform for industries/ start-ups/ sponsors to collaborate with best minds in the field. This platform will help sponsors in building network and promote their products and branding.

### Contact details

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Prof. Kishore Singh Patel | [patelks@nitrkl.ac.in](mailto:patelks@nitrkl.ac.in)



# Keynote Speakers

**Prof. Luís Miguel Grilo**

Professor, University of Evora, Portugal

**Prof. Kh S Mekheimer**

Professor & Ex-Vice Dean (PG)  
Al-Azhar University, Cairo

**Prof. Dhirendra S Katti**

Director, IIT Goa

**Prof. Mukesh K Gupta**

Director, ICMR-NARFBR, Hyderabad

**Dr. Sanjib Mohanty**

Ex Director  
Ispat General Hospital (IGH), Rourkela

**Prof. Sunil K Khare**

Director, IISER Kolkata

**Prof. Ashok Pandey**

Exe. Director (Honorary)  
Centre for Energy and Environmental  
Sustainability, Lucknow

**Prof. Anuj Mubayi**

Illinois University USA

**Prof. Suman Chakraborty**

Shanti Swarup Bhatnagar Awardee  
Professor, IIT Kharagpur

**Prof. R Vinu**

Professor, IIT Madras

**Dr. S Venkata Mohan**

Chief Scientist, IICT Hyderabad

**Prof. Singam Jayanthu**

National Mineral Awardee  
Professor, NIT Rourkela

**Prof. Mohamed Sultan Mohamed Ali**

Universiti Teknologi Malaysia

**Dr. Praveen Sahu**

Sr. Scientist, CWS Hospital, Rourkela

**Prof. T Bhaskar**

Scientist F, IIP Dehradun

