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4th International Conference on Biomedical Engineering Science and Technology: *Advanced Computational Approaches in Biomedical Research*

(ICBEST 2027)

April 15-16, 2027

Organized by

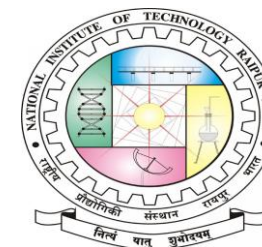
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About the Institution

National Institute of Technology (NIT) Raipur, formerly known as Government Engineering College (GEC) Raipur, is situated in the capital city of Chhattisgarh state. The institute has established its unique identity for the development of high-quality human and knowledge resource in diverse area of technology. It was declared as 'National Institute of Technology' by the Government of India on 1st December 2005 and then an 'Institute of National Importance' in May 2007 vide National Institute of Technology Act 2007. With over six decades of glorious history as a premier technical education institution in India, NIT Raipur now offers UG and PG and PhD in various disciplines.

About the Conference

The conference aims to provide a forum for researchers, practitioners and professionals from the industry and the academia to share their research trends, findings, and results. The Conference will highlight multidisciplinary perspectives to interested Biomedical Engineers, software engineers and computer professionals, medical professionals, biotechnologists, pharmaceutical experts, sustainability researchers etc. and will also provide a platform for potential knowledge exchange on recent trends, theories and practices in the field of medical science and engineering. The conference will discuss advancements that will enable the researchers to develop better health facilities, huge data processing techniques for medical application and non-invasive diagnosis methodology, produce preventive vaccines.

Important dates

Paper Submission ends: 15 October 2026

Acceptance Notification: 30 November 2026

Camera ready and & Registration: 30 December 2026

Conference Dates: 16-17, April 2027

Call for Papers

Research articles are invited in the following areas of interest, but not limited to:

Track 1: Artificial Intelligence and Intelligent Healthcare Systems

Artificial Intelligence in Healthcare
Machine Learning and Deep Learning
Explainable and Trustworthy AI
Pattern Recognition
Natural Language Processing and Large Language Models
Clinical Decision Support Systems
Computer-Aided Diagnosis
Precision Medicine

Track 2: Biomedical Sensing, Medical Imaging and Health Informatics

Biomedical Image Processing
Biosignal Processing
Medical Image Analysis
Health Informatics
Electronic Health Records
Big Data Analytics
Data and Text Mining
Multimodal Healthcare Data Integration

Track 3: Digital Health and Smart Healthcare Technologies

Internet of Medical Things (IoMT)
Mobile Health
Telehealth
Wearables
Remote Patient Monitoring
Virtual/Augmented Reality
Digital Twins
Smart Healthcare Systems

Track 4: Computational Modelling and Biomedical Engineering

Computational Mechanics
Multiphysics Modelling
Multiscale Modelling
Patient-Specific Modelling
Tissue and Biomaterial Modelling
Thermal, Fluid and Biotribology Simulations
Musculoskeletal Modelling

Track 5: Computational Neuroscience and Brain Health

Computational Neuroscience
Brain-Computer Interfaces
Neuroinformatics
Cognitive Computing
AI for Mental Health
Neuroimaging
Cognitive Assessment and Rehabilitation

Submission and registration

Paper submission: Papers must be submitted through online portal given below:

<https://confseries.in/ICBEST2027>

Paper must also be emailed simultaneously to icbest_bme@nitrr.ac.in

Submission Types: Research & Review articles*. Extended Abstract (for poster presentation)

*Review articles which include critical evaluation of existing studies will only be considered.

Registration Fees

Students (UG/PG): 4000 INR (150 USD)

PhD/PDF/JRF/SRF/RA : 4500 INR (200 USD)

Faculty: 5000 INR (300 USD)

Industry participant: 6000 INR (400 USD)

Additional 18% GST will be applicable in each registration category.

Highlights – **Best Technical Paper Award for each technical session/track and Best Poster Presentation Award**

Publications Opportunities

Note: **Selected papers in previous editions of ICBEST (2018, 2023 and 2025) were published in scopus indexed prestigious Springer book series (LNBE and CCIS) with no additional fee.** The fee includes presentation of an accepted paper at conference, publication in soft copy of abstract book. Based on the recommendations of the reviewer(s) the accepted full-length articles of ICBEST 2027, will be published in Scopus indexed Springer book series (approval pending)/journal special issue. Additional fee (if any) will be borne by authors.