



# RESEARCH & INDUSTRIAL CONCLAVE

*Fusing Knowledge, Innovation, and Enterprise*



## 10-12 OCTOBER '25

The Research and Industrial Conclave (RIC) 2025 at IIT Guwahati is a premier multidisciplinary platform uniting academia, industry, and policymakers to drive innovation for a sustainable future. Aligning with the theme "*Fusing Knowledge, Innovation, and Enterprise*", RIC bridges cutting-edge engineering, science, and humanities research with real-world industrial applications.

## CALL FOR ABSTRACT

The conclave will feature:

- **Interdisciplinary Research:** From AI-driven solutions to advanced materials and biotechnology.
- **Industry-Academia Synergy:** Showcasing scalable technologies and entrepreneurial opportunities.
- **Inclusive Dialogue:** Integrating perspectives from humanities, management, and social sciences to ensure equitable progress.

## SCIENTIFIQUE

Oral, Poster, Model &  
3 Minutes Thesis  
Presentation

### IMPORTANT DATES

17<sup>TH</sup> JULY, 2025

Opening of Extended  
Abstract

20<sup>TH</sup> AUGUST, 2025

Extended Abstract  
Submission Deadline

10<sup>TH</sup> SEPTEMBER, 2025

Notification of Acceptance  
for Presentation

15<sup>TH</sup> NOVEMBER 2025

Declaration of Review  
Results for Publication

15<sup>TH</sup> DECEMBER 2025

Final Manuscript  
Submission Deadline for  
Publication

**Note:** We kindly invite authors to submit only an extended abstract in the first stage. Upon acceptance, those interested in publication will be requested to submit the full paper. Participants who do not wish to pursue publication are welcome to present based on the accepted abstract.

Jointly Organized by:



Students' Academic  
Board  
IIT Guwahati



IIT Guwahati  
Research Park

## SCAN

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website



### Contact Us



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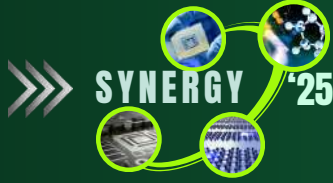
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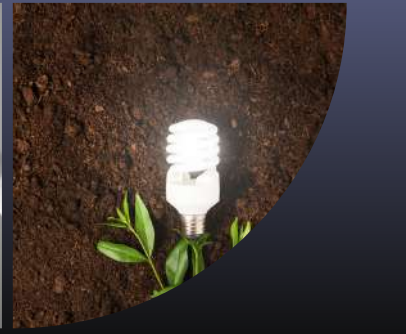
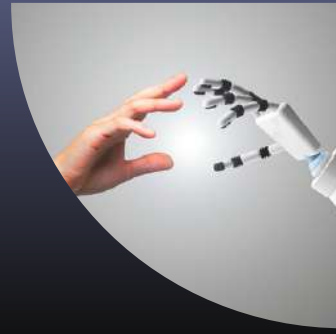


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## CALL FOR ABSTRACT Intelligent Technologies and Systems

Sub-themes include, but are not limited to:

### 1. Artificial Intelligence and Machine Learning: From Theory to Real-World Applications

- Foundational Algorithms and Computational Models
- AI-Driven Healthcare Diagnostics and Therapeutics
- Neural Engineering and Brain-Computer Interfaces

### 2. Cyber-Physical Systems and Autonomous Technologies

- Robotics, Automation, and Human-Machine Collaboration
- Smart and Resilient Infrastructure Systems
- Industrial IoT and Digital Manufacturing

### 3. Human Computer Interaction and Language Technologies

- Natural Language Processing, Signal processing and Multilingual Systems
- Computer Vision and Augmented Reality
- Ethical AI, Policy Frameworks, and Societal Impact

### 4. Data-Enabled Energy and Environmental Systems

- Smart Grids and Renewable Energy Integration
- Climate Modeling and Predictive Analytics
- Sustainable Urban Planning with Big Data
- Precision Agriculture and AI for Rural Development

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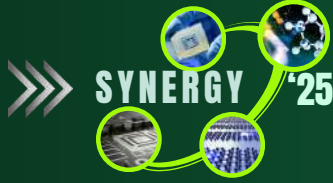
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## CALL FOR ABSTRACT Technology for Society

Sub-themes include, but are not limited to:

1. **Disaster Resilience and Community-Centric Technologies**
  - Early Warning Systems and Risk Mitigation Strategies
  - Drones and Remote Sensing for Emergency Response
  - Sustainable Reconstruction and Rehabilitation
2. **Digital Equity, Education, and Heritage Preservation**
  - Indigenous Knowledge Systems and Technological Integration
  - EdTech for Inclusive Learning and Skill Development
  - Assistive Technologies for Accessibility and Empowerment
3. **Sustainable Urban and Rural Development**
  - Water Resource Management and Purification Technologies
  - Circular Economy and Waste Valorization
  - Policy Innovations for Sustainable Tech Adoption
4. **Entrepreneurship, Governance, Technology Ethics, Digital Innovation, Governance, and Sustainable Futures**
  - Startup Ecosystems and Innovation Hubs
  - Regulatory Frameworks for Emerging Technologies
  - Digital Cultures, Behaviour, and Society
  - Fintech, Digital Markets, Regtech, and Business Transformation
  - Technology, Governance, and Public Policy for Social Impact
  - Sustainable Finance, Green Technologies, and Responsible Innovation

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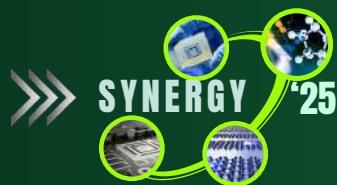
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## CALL FOR ABSTRACT

### Advanced chemical-driven Materials Innovation and Manufacturing

Sub-themes include, but are not limited to:

- 1. Nanomaterials and Functional Material Systems**
  - Synthesis and Applications of Nanostructured Materials
  - Smart Polymers and Sustainable Material Design
  - Bioinspired and Biomimetic Materials
- 2. Green Manufacturing and Sustainable Processes**
  - Additive Manufacturing and 3D Printing Technologies
  - Energy-Efficient and Low-Carbon Production Methods
  - Lifecycle Assessment and Eco-Design Principles
- 3. Materials for Energy Storage and Conversion**
  - Next-Generation Batteries and Supercapacitors
  - Photonic and Electronic Materials for Renewable Energy
  - Catalytic Materials for Environmental Applications
- 4. Computational and AI-Driven Materials Discovery**
  - Multi-Scale Modeling and Simulation of Materials
  - High-Throughput Screening and Predictive Design
  - Machine Learning in Materials Science and Engineering

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## CALL FOR ABSTRACT Recent Developments in Biotechnology

Sub-themes include, but are not limited to:

### 1. Biomedical Engineering and Healthcare Innovations

- Wearable Sensors and Implantable Devices
- Targeted Drug Delivery and Nanomedicine

### 2. Synthetic Biology and Bioengineering

- Genome Editing and CRISPR-Based Technologies
- Microbial Engineering for Biofuels and Bioproducts

### 3. Environmental and Agricultural Biotechnology

- Bioremediation and Wastewater Treatment Technologies
- Climate-Resilient Crops and Sustainable Agri-Tech
- Soil Health and Microbial Ecology

### 4. Computational and Systems Biology

- Bioinformatics and Genomic Data Analytics

RIC 2025 aims to inspire actionable strategies through keynote talks, panel discussions, and peer-reviewed presentations, with selected works published in Scopus-indexed proceedings. Join us to shape a sustainable future through innovation and partnership.

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