



ARUNAI

Engineering College

An AUTONOMOUS Institution

Tiruvannamalai, Tamilnadu

Department of Biotechnology



BEST 2027

Towards tomorrow

8th

INTERNATIONAL CONFERENCE ON BIOENERGY, ENVIRONMENT & SUSTAINABLE TECHNOLOGIES



January 28 & 29, 2027



Arunai Engineering College

Tiruvannamalai, Tamil Nadu, India

*Innovative Solutions for a Cleaner, Greener and
Sustainable Tomorrow*



In Association with



Biotech
Research Society
of India (BRSI)



International
Bioprocessing
Association (IBA)



Institution of
Engineers
India (IEI)



Indian Society
for Technical
Education (ISTE)



Institution's
Innovation
Council

Supporting Organization



Centre for Energy and
Environmental Sustainability,
Lucknow (CEES)

About the Conference

As the world grapples with accelerating climate change, resource depletion, and ecological degradation, the shift toward a resilient, carbon-neutral circular economy has never been more vital. Bridging the gap between ecological preservation and economic development requires scalable, technology-driven solutions rooted in biotechnology, renewable energy, and green process engineering. Developing economies face the dual challenge of meeting rising energy and industrial demands while safeguarding vital ecosystems, public health, and agricultural livelihoods.

Addressing these global challenges demands cross-disciplinary collaboration, transforming organic residues and biomass into bioenergy, advancing bioremediation for industrial effluents, deploying sustainable agricultural biotechnology, and mitigating greenhouse gas emissions. These priorities align directly with the United Nations Sustainable Development Goals (SDGs).

The Department of Biotechnology at Arunai Engineering College (AEC) proudly presents the **8th International Conference on "Bioenergy, Environment & Sustainable Technologies" (BEST2027)**, scheduled for **January 28 & 29, 2027**. Organized as a premier biennial event, BEST2027 provides a dynamic global platform for academic researchers, industry professionals, scientists, and policy experts to share discoveries and translate innovations into sustainable, real-world technologies for a cleaner planet.



Alignment with United Nations Sustainable Development Goals (SDGs)

7 AFFORDABLE AND
CLEAN ENERGY



Accelerating research into biofuels, bio-hydrogen, and waste-to-energy platforms.

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



Fostering bio-based process design, green technologies, and industrial decarbonization.

12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



Advancing circular bioeconomy models, agro-industrial waste valorization, and resource recovery.

13 CLIMATE
ACTION



Developing carbon capture, microalgal sequestration, and low-emission bioprocesses to slow global warming.

15 LIFE
ON LAND



Restoring soil vitality through biofertilizers, biopesticides, and sustainable land-use practices.

About the Institution



Arunai Engineering College (AEC), a Co-Educational institution was established in the year 1993. AEC is affiliated to Anna University, Chennai and approved by AICTE. AEC is certified with ISO 9001:2008 and accredited by NAAC. The Institute was conferred as autonomous by UGC from 2024-25 session.

About the Department

The Department of Biotechnology was established in 2002. The department is offering B.Tech and M.Tech Biotechnology programmes. The laboratories are equipped with Molecular biology, Biochemistry, Microbiology, Bioprocess, Downstream processing instruments. It nourishes the student with analytical knowledge, hands on experience and soft skills. The department was ranked top ten among private institutions offering Biotechnology in India. NBA has accredited the B.Tech Biotechnology programme offered by the department.

About Tiruvannamalai

Tiruvannamalai, one of the most affluent and un-spliot locations with an exceptionally good quality of spiritual life. There is an antiquity if deep mysticism which is precedent, a popular parable, that people attain Mukthi by mere thought of this town, as there is a galaxy of temples and Ashrams, and 400 lingams in the eight mile circuit of this sacred hill. Tiruvannamalai providing a holistic environment, ideal for dedicated study with discipline, way from the hustle and bustle of the modern cities.



Conference Topics



Bioenergy

- Biofuels (2nd, 3rd and 4th Generation)
- Biorefineries
- Biomass Conversion Technologies
- Bioenergy from Industrial Effluents
- Enzyme Technologies for Biofuels
- Co-generation and tri-generation
- Economics and financing the bioenergy systems
- Biofuel storage



Water Research

- Photocatalysis based water treatment
- Wastewater microbiology
- Drinking water microbiology
- Molecular ecology
- Microbial diversity
- Novel approaches for urban water management in developing countries



Environmental Biotechnology

- Microbial ecology of biogas systems
- Biological Treatment Processes
- Bioremediation
- Solid Waste Management
- Environmental Monitoring & Biosensors



Climate Change

- Carbon credit
- Carbon neutral economy
- Climatic and environmental issues
- Carbon balance
- Reduction of GHG
- Energy saving
- Governance for low carbon communities and infrastructure



Sustainable Technologies

- Renewable energy systems
- Smart cities
- Robotics
- Artificial Intelligence
- Internet of Things (IoT)



Important Dates



First call for abstracts

20 October 2026



Deadline for abstracts submission

30 December 2026



Deadline for full paper submission
(optional for book chapter publication only)

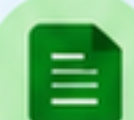
05 January 2027



Publication Opportunities



Abstract book with ISBN



Full papers will be published as book chapter in edited book with ISBN



Full paper publication in Special Issue Journals (journals yet to be finalized)



Organizing Committee



Chief Patron
Er. E.V. Kumaran
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Executive Director,
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Prof. R. Praveen Kumar
Head – Biotech, AEC



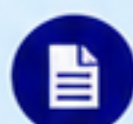
Conference Coordinators

- Dr. J. Vinoth Arulraj
- Dr. R. Selvaraj
- Dr. E. Raja Sathendra
- Mrs. S. Rubala
- Mrs. S. Suganya
- Mrs. K. Latha
- Ms. N. Rithi Priyanks
- Ms. B. Madhumitha



Registration Fees

	Fees (net prices)	Online Presentation	On site Presentation	On site Participation (without presentation)
Foreign Participant	Standard registration	\$100	\$125	\$100
	Student registration	\$75	\$100	\$50
Indian Participant	Standard registration	Rs. 1500	Rs. 2000	Rs. 1500
	Student registration	Rs. 1000	Rs. 1500	Rs. 1000



Registration fees include entrance to all scientific sessions, Conference Kit*, lunches and coffee, internet access at venue.



*Conference Kit is for on-site participants only.



Link for registration: <https://forms.gle/rYdZrrXn1TTyuBFr8>



Best papers will be awarded with a citation (both online and onsite participants) and cash prize (only for onsite participants).

Scan to Register



Contact Details



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Conference Website



www.arunai.org/best2027