



GMEIME2026

3rd Global Meet & Expo on

Industrial & Mechanical Engineering

April 06-08, 2026 | Barcelona, Spain



<https://industrialengineering.academynature.org>

Announcement

The GMEIME2026 conference welcomes contributions from all areas of Industrial and Mechanical Engineering, including but not limited to manufacturing processes, automation, robotics, material science, thermal systems, and smart manufacturing.

Industrial and Mechanical Engineering are the cornerstones of modern technology and manufacturing innovation. These disciplines not only drive industrial productivity but also shape the way we design, build, and optimize systems that power our world. As industries move toward automation, sustainability, and Industry 4.0 integration, the role of mechanical and industrial engineering becomes ever more vital.

From traditional manufacturing to cutting-edge additive manufacturing and robotics, the field continues to evolve rapidly. Mechanical systems, production engineering, and automation technologies are increasingly intertwined with artificial intelligence, data analytics, and advanced materials. This synergy is revolutionizing manufacturing efficiency, product quality, and resource optimization.

Key areas such as energy-efficient manufacturing, precision engineering, smart factories, advanced robotics, and sustainable production processes are redefining industrial standards. Mechanical systems optimization and industrial process improvements are central to meeting the demands of modern production while ensuring sustainability and cost-effectiveness.

The integration of Industrial Internet of Things (IIoT), cyber-physical systems, and digital twins enables real-time monitoring, predictive maintenance, and adaptive manufacturing processes. This transformation opens new avenues for optimizing productivity and reducing environmental impacts in manufacturing industries worldwide.

Historical Evolution and Emerging Trends

The origins of Industrial and Mechanical Engineering date back to the Industrial Revolution of the 18th century, which marked a shift from manual labor to mechanized production. The invention of steam engines, mechanized looms, and machine tools laid the foundation for modern manufacturing. Over the decades, advancements in thermodynamics, materials science, and automation have continually reshaped the discipline.

Today, Industrial and Mechanical Engineering is entering a new era marked by **Industry 4.0** and the emergence of Industry 5.0 — where human-machine collaboration, AI-driven automation, and sustainable manufacturing converge. Emerging trends include:

- **Smart manufacturing systems powered by AI and IoT**
- **Additive manufacturing (3D printing) for rapid prototyping and custom production**
- **Sustainable manufacturing that minimizes energy consumption and waste.**
- **Advanced robotics and human-robot collaboration for safer and more flexible production lines.**
- **Digital twins and predictive analytics for real-time optimization of processes.**

As the field continues to evolve, Industrial and Mechanical Engineering will remain pivotal in addressing global challenges such as resource efficiency, environmental sustainability, and industrial competitiveness.

The **GMEIME2026** conference will serve as a global platform for scholars, engineers, and industry leaders to exchange research, innovations, and applications. Together, we aim to shape the future of Industrial and Mechanical Engineering — driving progress toward smarter, greener, and more efficient industrial ecosystems.

The purpose of this important conference is to get all experts, who are doing Mechanical Engineering –related research, around the world sitting together to report their new progress in Mechanical.

Topics:

- The Future of Industrial and Mechanical Engineering
- Advanced Manufacturing Technologies (Additive Manufacturing, CNC, Precision Engineering.)
- Smart Factories and Industry 4.0 / Industry 5.0
- Automation, Robotics, and Mechatronics Systems
- Human-Robot Collaboration and Cobots
- Advanced Materials and Composite Structures
- Fluid Dynamics in Industrial Applications
- Turbulent Flow and Computational Fluid Dynamics (CFD)
- Thermal Systems and Heat Transfer Optimization
- Mechanical System Design and Optimization
- Energy Efficiency in Manufacturing Systems
- Sustainable Manufacturing and Eco-Design
- Life Cycle Analysis of Industrial Systems
- AI and Machine Learning in Industrial Processes
- Predictive Maintenance and Digital Twin Technologies
- Industrial Internet of Things (IIoT) and Cyber-Physical Systems
- Industrial Safety and Risk Management
- Supply Chain Optimization and Smart Logistics
- Lean Manufacturing and Process Improvement
- Automation in Heavy Industry (Automotive, Aerospace, Machinery)
- Additive and Subtractive Hybrid Manufacturing
- Recycling and Circular Manufacturing Systems
- Smart Materials and Adaptive Systems
- Electrification and Energy Integration in Industrial Systems
- Industrial Policy, Economics, and Sustainability Practices

Welcome all scientists, engineers, and graduate students in any Mechanical –related research areas, who are interested to submit the abstract through GMEIME2026 website <https://industrialengineering.academynature.org/> The presentation will be hybrid with the ways of in-person or online. There are some discounts i.e., \$200 for virtual (Online) presentation

Journal Collaboration

All presenters will be invited to submit full papers to the important conference for review and some excellent papers will be reviewed and selected for publication in a special issue of *Journal of Infrastructures* (ISSN: 2412-3811), covering Civil, Mechanical, and Environmental Engineering



Deadlines:

Abstract Submission Deadline—**December 29, 2025**

Standard Registration Deadline —**December 28, 2025**

Thank You.

Conference Chairman

**Prof. Maria Antonia Pérez Hernando,
Local Chair | Infrastructures design professor
University of Cantabria, Spain | GMEIME2026**

Lisa M

Sr. Program Manager | Academy Nature Events