



CIRP School

2nd CIRP School on “Manufacturing for Sustainability”

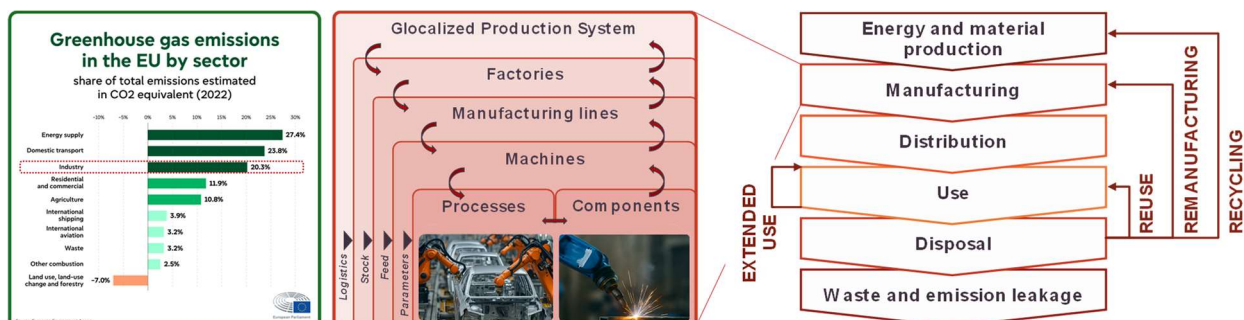
3rd – 7th November 2025
Politecnico di Torino, Torino, Italy

Announcement

Initiated and supported by the president of the CIRP, Prof. Fengzhou Fang, and coordinated by the CIRP School task force (Profs. A. Balsamo, B. Cheung, F. Fang, R. Gao, N. Michailidis, L. Settineri, and K. Wegener), the CIRP School series continues with its second edition hosted by Politecnico di Torino, Italy, with academic coordination by Profs. Luca Settineri and Paolo C. Priarone. The 2nd CIRP School will focus on the theme of “Manufacturing for Sustainability”, which aligns with CIRP’s mission to advance manufacturing for environmentally sustainable global prosperity and societal well-being. The programme addresses the need for interdisciplinary approaches and multi-level, multi-system analysis to deal with the complexity of modern sustainable manufacturing.

It will explore the integration of engineering, environmental science, systems thinking, and digital technologies to reduce resource consumption and environmental impact across the product and process lifecycle. The 5-day course combines lectures, hands-on sessions, and technical visits, offering participants both conceptual frameworks and practical tools. Topics include life cycle assessment, circular economy principles, energy/resource-efficient production, and enabling technologies such as digital twins, data analytics, and process simulation. This edition is open to PhD students, postdoctoral researchers, Research Affiliates and industry professionals with interests in sustainable manufacturing. Participants will engage with international experts and peers in an intensive and collaborative environment.

Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:00-10:00	Welcome reception and Participant introductions <i>(Settineri/Priarone)</i>	Circular and sustainable supply chain management <i>(Tuni)</i>	Enabling technologies for the digital and sustainable transition <i>(Settineri)</i>	Case studies and best practices: Translating research into industrial impact <i>(Priarone)</i>	Addressing social sustainability: Issues and perspectives <i>(Simeone)</i>
10:00-12:00	Fundamentals of manufacturing for sustainability <i>(Settineri)</i>				
12:00-13:00	Lunch break				
13:00-15:00	Methods and tools for sustainability assessment <i>(Demichelis)</i>	Sustainable business management <i>(Ravetti)</i>	Technical visit to IAM@PoliTo Integrated Additive Manufacturing	Technical visit to CIM4.0 Competence Industry Manufacturing 4.0	Sustainability challenge <i>(Catalano)</i>
15:00-17:00			Technical visit to J-Tech@PoliTO Advanced Joining Technologies		Overview and outlooks <i>(Settineri/Priarone)</i>



The CIRP School will feature:

- lectures by renowned experts in sustainable manufacturing;
- case studies and methods for energy and material efficiency;
- digital solutions for monitoring and optimising manufacturing impact;
- interactive activities and simulation-based sessions;
- technical visits to advanced research and industrial facilities.

Technical Visits

Participants will visit the following facilities within and around Politecnico di Torino:

- IAM@PoliTo (Integrated Advanced Manufacturing)
– A centre focusing on metal additive manufacturing processes and design integration for aerospace, biomedical, and automotive applications;
- J-Tech@PoliTo (Advanced Joining Technologies)
– A lab developing innovative joining processes with emphasis on dissimilar materials, sustainability and high-performance structural integration;

- CIM4.0 (Competence Industry Manufacturing 4.0) – A national competence centre supporting companies in digital and sustainable transformation, with a focus on robotics, AI, simulation and cybersecurity.

Important Information

Date: 3rd – 7th November 2025

Venue: Politecnico di Torino, Turin, Italy

Registration Deadline: 15th October 2025

Participation Fee: €600

(includes lunches, coffee breaks, and a networking dinner)

Application & Contact:

angioletta.catalano@polito.it

About the Venue

Founded in 1859, Politecnico di Torino is one of Europe's leading technical universities, with a strong commitment to scientific research, technology transfer and sustainable development. The university hosts a dynamic community of students, researchers and industry partners, located in the urban heart of Torino, a city known for its rich industrial heritage and innovation in automotive and aerospace engineering.

