



LifeLong
Learning

Leading Advanced Manufacturing Technologies

A four-day intensive program offering an up-to-date, bird's-eye-view perspective into critical technologies for manufacturing, drawing on expertise from research and practice. Certificate from the Technical University of Munich upon completion.



Why expand your knowledge in Leading Advanced Manufacturing Technologies?

Global competition and rapid technological change demand more than technical know-how: strategic vision and interdisciplinary thinking are essential. The certificate program in Leading Advanced Manufacturing Technologies is open for specialists and generalists in mid- to high-level career roles covering R&D, tech expertise, marketing & sales, innovation, product development, or services.

- Differentiate advanced from conventional manufacturing
- Evaluate key technologies and strategic impact
- Apply insights through real-world use cases
- Integrate sustainability and circular economy principles
- Become part of an European leadership network in industrial science

In partnership with the EuroTeQ Engineering University, this program provides leaders and senior experts with the knowledge and background necessary for making technology-related decisions.

The certificate program at a glance

Academic responsibility:

Prof. Dr. Peter Mayr

TUM School of Engineering & Design, Materials Engineering & Additive Manufacturing

Key areas and highlights of the program

- **Key Technologies & Innovation:** Explore additive and subtractive manufacturing, automation, robotics, AI, IoT, and power electronics to understand their technical and strategic impact.
- **Data & Digital Integration:** Learn how digital twins, data-driven processes, and secure IoT systems transform production efficiency and adaptability.
- **Sustainability & Circular Economy:** Apply principles for sustainable manufacturing and circular value chains through real-world use cases.
- **Strategy & Networking:** Gain economic and strategic insights, develop future-ready solutions, and build a strong professional network through interactive workshops and peer learning.
- **Technology Leadership:** Lead industrial and green transformation, master critical technologies, and drive innovation through cross-sector collaboration and ecosystem building.

Learning format

On-Site in Garching (near Munich) with lectures, workshops, interactive case studies and networking sessions.



Start:
July
2026

European Leadership Program on Industrial Science

This program is part of ELPIS, a European executive education program developed by leading technical universities in Europe.

TUM Institute for LifeLong Learning: Excellence in Advanced Education

Benefit from the strength of one of Germany's best universities: The Technical University of Munich is among the leaders in international rankings and combines academic excellence with practical continuing education.

- **Research meets practice:** Our programs are based on cutting-edge research and are closely linked to practical challenges – from technology to management to leadership.
- **Value-oriented learning:** We promote responsible thinking and action – for sustainable solutions in business and society.
- **Innovative learning formats:** Through modern, technology-supported teaching methods and an individualized approach, we support you in developing your full potential.

+49 (0) 89 289 28475
EuroTeQ.certificates@lll.tum.de
go.tum.de/409415

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