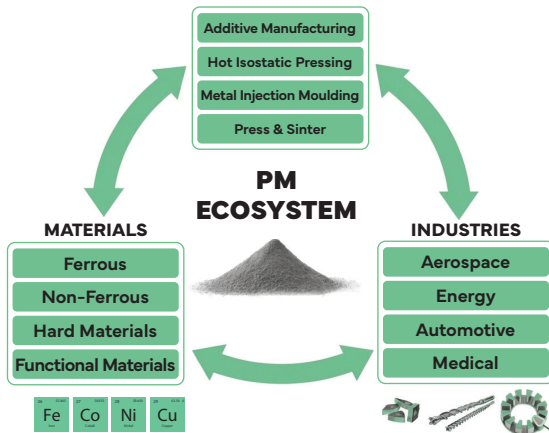
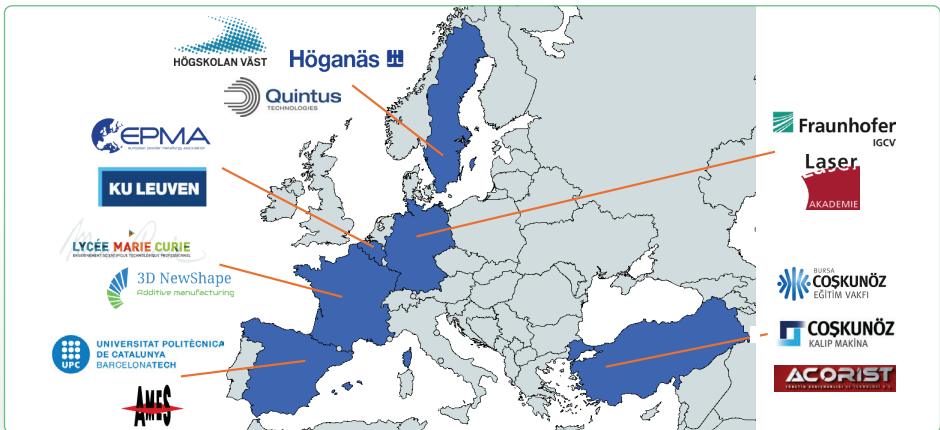


PMEXCEL

PMEXCEL IS A PROJECT FUNDED BY EU'S ERASMUS+ PROGRAMME, ESTABLISHING **CENTRES OF VOCATIONAL EXCELLENCE (COVES)** FOR THE POWDER METALLURGY SECTOR ACROSS EUROPE.



The project will *identify current and future skills* needs in the PM industry and develop an *innovative online learning platform* offering training courses and EU-recognised micro-credentials, to help students, job seekers, and professionals acquire new competencies, while supporting the *upskilling and reskilling of the existing workforce* to meet the evolving needs of the PM industry.



DURATION: 01 April 2026 – 31 March 2030

GRANT: 3.8 M€

COORDINATOR: EPMA (European Powder Metallurgy Association)

PARTNERS: 14, from 6 EU/EEA countries (Belgium, France, Germany, Spain, Sweden, Türkiye) including both companies and VET providers.



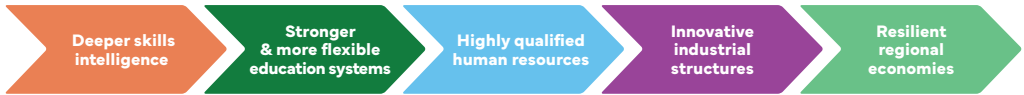
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Project: 101260546 / ERASMUS-EDU-2025-PEX-COVE

PROJECT IMPACT & AMBITION

- Identify the future skills needed by the Powder Metallurgy industry.
- Develop innovative training courses and EU-recognised micro-credentials.
- Connect education providers and industry to create relevant learning pathways.
- Attract new talent to manufacturing careers across Europe.
- Upskill and reskill the existing workforce.
- Contribute to Europe's green and digital industrial transformation.



PROJECT EXPECTED OUTCOMES IN E-LEARNING FOR PM

- Develop 8 training modules covering the full Powder Metallurgy value chain, including technologies, materials and industrial applications.
- Pilot the training content with learners and industry stakeholders to collect feedback and refine the curricula.
- Deliver the courses through an online e-learning platform accessible across Europe.
- Provide EU-recognised micro-credentials to support lifelong learning, upskilling and employability in the Powder Metallurgy sector.

MODULE 1 Powder Metallurgy Basics	MODULE 2 Hard Materials	MODULE 3 Functional Materials	MODULE 4 Sustainability in PM
• PM Terminology • Powder Production • Powder Handling • Characterization • Flow Properties • Quality Inspection	• HM Metallurgy • Cemented Carbides • Cermets • Effect of Binders • Production Steps • Coatings	• Magnetic Materials • Thermoelectricity • Storage Materials • Oxide Fuel Cells • Metal & Ceramic Matrix Composites	• Biodiversity • Climate Change • EU Regulations • LCA in PM • Ecosystem Services • Pollution
MODULE 5 Press & Sinter	MODULE 6 Additive Manufacturing	MODULE 7 Hot Isostatic Pressing	MODULE 8 Metal Injection Moulding
• Mixing & Pressing • Tool Design • Compaction • Sintering Behaviour • Bearings • Post Operations	• LPBF & EBM • Binder Jetting • Direct Energy Deposition • Topology • Design Guidelines	• PM HIP • Container Design • Filling & Outgassing • AM Post Processing • Design Guidelines • Computer Modeling	• Mould Design • Injection Process • Debinding • Sintering • Residual Porosity • MIM Standards

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