



ADMIRE

EUROPEAN MASTER DEGREE IN METAL ADDITIVE MANUFACTURING



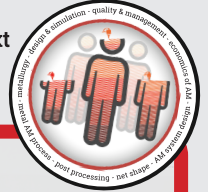
KNOWLEDGE ALLIANCE FOR ADDITIVE MANUFACTURING BETWEEN INDUSTRY AND UNIVERSITIES



admireproject.eu

WHY? METAL AM MSc

- Combines technical knowledge with industrial manufacturing skills
- High specialised program for a fascinating and rapidly growing technology
- Cutting edge course for the next generation of engineers



METAL AM PROCESSES

- Powder and Wire Based
- Laser, Electron Beam, Arc, Plasma
- Strategies and Defects



GENERAL MANAGEMENT

- Accounting, Supply Chain and Project
- Cost Modelling
- Leadership and Team Contribution



METALLURGY

- Materials Properties
- Grain and Microstructure
- Phase Transformation



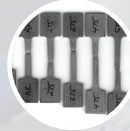
POST PROCESSING

- Shot-peening, Heat Treatment, Pressing
- Materials and Parts Properties



FINITE ELEMENTS ANALYSIS

- CAD for AM
- Design Optimisation
- Numerical Simulation for AM
- Pre and Post Processing



QUALITY & MANAGEMENT

- Parts Quality Management
- Measurements and Standards
- Mechanical Properties and Typical defects
- Destructive and Non-destructive Testing



OTHER NET SHAPE PROCESSES

- AM Methods, HIP
- Powder Processing
- Process Selection



AM SYSTEM DESIGN

- Parts Manipulation and Fixation
- Sensors and Robot Cell Design
- Thermal Management
- Factory Layout and Operations Planning

PILOTING PHASE - OCTOBER 2019
for the courses

If you are interested in participating in the pilots, please register yourself at admireproject.eu

Partners:

