

University College Dublin Ireland's Global University

ME MANUFACTURING ENGINEERING (double degree) (TWO YEARS FULL TIME)

This masters merges manufacturing technical and technological aspects with innovation and entrepreneurship teaching, in the context of the global societal challenges, such as circular economy, industrial innovation and sustainability.

It is a double degree programme, coordinated by EIT Manufacturing Master School, between UCD and other universities around Europe i.e. Aalto University, Finland, Ecole Centrale de Nantes (ECN), France, Politecnico di Milano (POLIMI), Italy, University of Applied Sciences and Arts of Italian Switzerland (SUPSI),

Switzerland, Institut Polytechnique de Grenoble (Grenoble INP), France and and Vienna University of Technology (TU Wien), Austria. The first year is spent at UCD (entry university) and the second year is spent at another (exit) university as listed above.

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Students choose one of three minors offered as part of the programme i.e. Additive Manufacture for Full Flexibility, Zero-Defect Manufacturing for a Circular Economy, and Platforms for digitalized value networks.

eit Manufacturing



EIT MANUFACTURING MASTER SCHOOL

EIT Manufacturing (EITM) Master School is part of EIT Manufacturing, a European association of leading Universities, industries and research centres linked to the manufacturing sector. EITM Master School and its partner universities offers a unique and excellent high education programme, with international and inclusion mindset, to graduate the next generation of Manufacturing Innovators and Entrepreneurs. On completion students receive two degrees directly from entry and exit universities and the EIT label certificate from EIT Manufacturing, as international recognition of their high-quality education curriculum.

COURSE CONTENT AND STRUCTURE

120 credits taught master's

Engineering Project Management

Quantitative Methods for Engineers

Entry-Exit universities combination

Supply Chain Design & Analysis

Modules offered will depend on

minor stream chosen and the

Operations Management

30 credits

The teaching methods and learning environment are highly exercises. Group-based modular students to integrate theoretical knowledge with practice.

WHY STUDY AT UCD?





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Established 1854, with 160 years of teaching and research excellence



Global profile

UCD is ranked in the top 1% of higher education institutions worldwide

Global community

Over 8,500 international students from over 130 countries study at

Global careers

Degrees with high employability; dedicated careers support; two-year stay-back visa (for non-EU students)

Safety

Modern parkland campus with 24-hour security, minutes from Dublin city centre

interactive and varied and projects and a final 30 ECTS Thesis project module enable



- Engineering Decision Support Systems Professional Engineering (Finance)
- Professional Engineering (Management)

Modules offered by UCD include:

Mechanical Engineering Design Technical Communication

Advanced Polymer Engineering

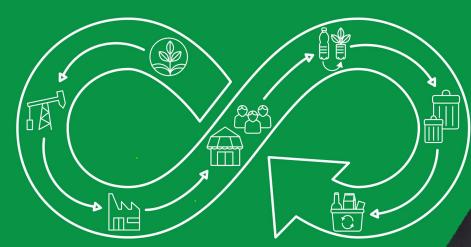
Materials Science and Engineering

Computational Continuum Mechanics

Advanced Metals & Materials Processing

Manufacturing Engineering

Course codes: T369, T370, T371



CAREER OPPORTUNITIES

There is strong demand throughout Europe for graduates of manufacturing degree programmes to be better equipped for the marketplace than their predecessors have been. There is strong need for graduates to have direct experience of industry, to have a practical awareness of important developments within the sectors of Europe's manufacturing industry (e.g., increased digitalisation, demands of Industry 4.0, growth of additive manufacturing and robotics, etc.), to have a greater awareness of innovation & entrepreneurship, combined with an international perspective that is the direct result of personal experiences.



The ME Manufacturing Engineering will prepare you for high level technical positions, Innovation roles and business profiles, including the capability to create your own startup. It will also allow you to create a professional network at national and international level through the several initiatives and the EIT alumni communities.

APPLY NOW

Students apply through a central application system, managed by EIT Manufacturing https://apply.eitmanufacturing.eu/

ENTRY REQUIREMENTS

- A bachelor's degree with a minimum of 180 ECTS credits or equivalent academic qualifications from an internationally recognized university with a minimum 2:1 degree GPA. B.Sc, in Mechanical Engineering, Electrical Engineering, Computer Engineering, Computer Science, Information Technology or Industrial Engineering, depending on the minor that the applicant wants to pursue.
- Applicants whose first language is not English must also demonstrate English language proficiency of IELTS 6.5 (no band less than 6.0 in each element), or equivalent.

SCHOLARSHIPS

All students for this programme are eligible for an automatic scholarship. The EIT Manufacturing Master School will rank applicants and offer scholarships at the time of the students admission. Scholarships may include: mobility grant, subsistence costs support and fee waivers.

FEES

See EIT Manufacturing website https:// eitmanufacturing.eu/ for more information

RELATED MASTER'S PROGRAMMES OF INTEREST

- ME Mechanical Engineering
- ME Materials Science & Engineering
- MEngSc Materials Science & Engineering
- ME Engineering with Business
- MEngSc Engineering Management



PROGRAMME DIRECTOR

Dr Pezhman Ghadimi

This European and intersectoral mobility postgraduate programme is strongly oriented towards innovation and entrepreneurship (30 credits out of the 120 expected over the 2 year duration), including a dedicated summer school which will rotate between university partners. The strong industry component is reinforced by industry projects, the Master thesis and a potential internship. The objective of the Master School is to train the future European leaders in manufacturing, combining digital and technical manufacturing skills to meet the needs of European SMEs and multinationals alike. Students will be delivered a double Master degree after spending one year in two of the seven universities which shaped up this ambitious and prestigious training programme, along with a EIT Manufacturing certificate.

UCD will welcome students participating in this programme next September 2022 for the first year of their Master studies. The students will spend their second year at other partner universities.

CONTACT US

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