

Course code: T165

ME Mechanical Engineering

Two Years Full Time (September start)

Introduction

The ME in Mechanical Engineering is a professional two-year engineering graduate degree. Graduates of the programme will be eligible for the title of Chartered Engineer (CEng). This programme is aimed at graduate Mechanical Engineers seeking to obtain a master's degree in Mechanical Engineering. You will gain advanced theoretical, conceptual and

practical knowledge in the application of Mechanical Engineering. Emphasis is placed on the skills required to generate new knowledge through research. This is achieved through independent and project-based learning while working with UCD academics and researchers on contemporary research projects.

Course Highlight

This ME is professionally accredited by Engineers Ireland and recognised by the Washington Accord for Chartered Engineer status. The programme provides the opportunity for a 6-8 month industrial placement as well as an extensive research project.

Course Content and Structure

- 120 credits Taught masters
- 65 credits Taught modules
- 25 credits Research Project
- 30 credits Work Experience

Core Modules include:

- Computational Continuum Mechanics I
- Computational Continuum Mechanics II
- Control Theory and/or Process Control
- Engineering Thermodynamics III
- Fracture Mechanics
- Manufacturing Engineering II
- Mechanics of Fluids III
- Mechanics of Solids III
- Online Research Skills and Techniques
- Professional Engineering Management

Option Modules include:

- Advanced Composites and Polymers
- Advanced Metals and Materials Processing
- Data Analytics for Engineers
- Energy Systems and Climate Change
- Heat Transfer
- Engineering Decision Support Systems
- Engineering Project Management
- Materials Science and Engineering
- Numerical Algorithm
- Operations Management
- Quantitative Methods for Engineers
- Technical Ceramics

Why study at UCD?



Graduate education

12,800 graduate students; 17% graduate research students; structured PhDs



Global Profile

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



Global community

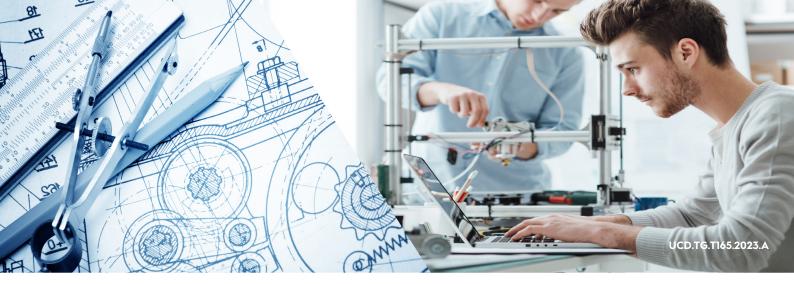
9,500 international students and a 300,000 alumni network across 165 countries

Global careers

Dedicated careers support; 2-year stayback visa to work in Ireland



ACCREDITED PROGRAMME



Career Opportunities

In the year immediately after graduation, this programme boasts a 95% success rate for graduates seeking employment or progression to research education. Mechanical engineers are at the centre of every area of technology. Graduates from this programme will be eligible to become fully qualified professional engineers, capable of working anywhere in the world at an advanced technical level or as a professional engineering manager. In the recent past, UCD ME Mechanical Engineering graduates have progressed to careers in industries such as: aerospace industry (e.g., European Space Agency), automobile industry (e.g., Denso, Ferrari, Ford, Jaguar, Land Rover), biomedical industry (e.g., Boston Scientific, Medtronic, Stryker), oil and gas (Cameron), and materials and manufacturing (Henkel, Kingspan).

Graduate Profile

Cathal McClean ORIX Aviation



In the first year of the master's I was able to spend eight months in an aircraft maintenance organisation, which gave great context to the theory learned classroom in modules. Following on from this, I was fortunate enough to do a research thesis on the topic of fracture of composites, а material used extensively in aircraft structure. UCD Mechanical Engineering is broad enough to give you the range and choice of topics to really pursue an area of interest to you. Whether you are interested in fluid dynamics, or control systems, or micro manufacturing, or 3D printing, the framework is there to pursue these areas.

Applicant Profile

- Applicants must hold a bachelor's degree in Mechanical Engineering with a minimum upper second class honour (NFQ level 8) or international equivalent and the appropriate prior learning.
- 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.
- Students who do not meet the IELTS
 requirement may wish to consider taking the Pre-Sessional or Pre-Masters Pathway. Full details https:// www.ucd.ie/alc/programmes/ pathways/

International Fees and Scholarships

Tuition fee information is available on www.ucd.ie/fees. Please note that UCD offers a number of graduate scholarships for full-time, self-funding international students, holding an offer of a place on a UCD masters programme. Please see www.ucd.ie/global/ scholarships/ for further information.

Related Masters Programmes of Interest

• ME Energy Systems

- ME Materials Science & Engineering
- MEngSc Materials Science & Engineering

CONTACT US

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APPLY NOW

This programme receives significant interest so please apply early online at **www.ucd.ie/apply**