



University College Dublin
Ireland's Global University

ME Mechanical Engineering (Two Years Full Time)

The ME in Mechanical Engineering is a two-year professional 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 masters 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.

Internationally recognised degree

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 month industrial placement as well as an extensive research project.

Why study at UCD?



Tradition

Established 1854, with 160 years of teaching & research excellence



Global profile

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



Global community

Over 6,000 international students from over 120 countries study at UCD



Global careers

Degrees with high employability, dedicated careers support; 1 year stay-back visa (for non-EU students)



Safety

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

Course Content and Structure

120 credits
taught masters

65 credits
taught modules

30 credits
professional work experience

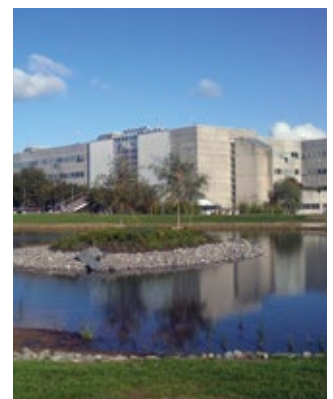
25 credits
research project

Core modules include:

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

Optional modules include:

- Technical Ceramics
- Energy Systems and Climate Change
- Kinetics and Thermodynamics of Materials
- Applied and Computational Mathematics
- Materials Science and Engineering
- Advanced Metals and Materials Processing
- Advanced Composites and Polymer Engineering
- Nanomaterials
- Technical Communications



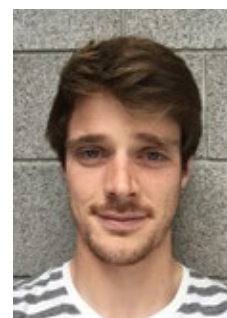


Career Opportunities

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. Ferrari, Jaguar Land Rover, Ford, Denso), biomedical industry (e.g. Medtronic, Boston Scientific, Stryker), oil and gas (Cameron) and materials and manufacturing (Henkel, Kingspan).



Graduate Profile

Gareth Boyle, PhD Student

I chose to do the ME in Mechanical Engineering at UCD because the programme offers a six month work placement on top of a wide variety of advanced academic modules and a final year project. This challenging programme significantly enhanced my engineering knowledge, provided me with the tools needed to take on more applied engineering tasks and gave me an opportunity to work with some of the biggest transport, aerospace, automobile and biomedical companies in Ireland and the UK.

Following the ME, I worked as a Research Engineer in the School of Mechanical Engineering's Adhesion Group on various projects involving composite materials testing and computational fluid dynamics before starting a Biomechanical Engineering PhD at UCD. This is a testament to the broadness of the ME Mechanical programme, as there is a diverse range of mechanical engineering fields to which you can apply what you learn during the ME, making you an attractive candidate for many advanced engineering roles.

Apply Now

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

Entry Requirements

- A 4-year bachelors degree with a minimum upper second class honours (NFQ level 8) or international equivalence in Mechanical Engineering or 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.

International Students

- Stay in Ireland after graduating for 12 months to seek employment
- Approved by US Dept. of Education for federally supported loans
- Apply for Non-EU Scholarships: www.ucd.ie/international/scholarships

Related Masters Programmes of Interest

- ME Materials Science & Engineering
- MEngSc Materials Science & Engineering
- ME Energy Systems

Fees

Fee information is available www.ucd.ie/fees

Contact Us

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