

## University College Dublin Ireland's Global University



# ME MECHANICAL ENGINEERING (TWO YEARS FULL TIME)

The ME in Mechanical Engineering is a twoyear 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 6-8 month industrial placement as well as an extensive research project.

## COURSE CONTENT AND STRUCTURE

120 credits taught masters

30 credits

25 credits

#### Core modules include:

- Engineering Thermodynamics III Fracture Mechanics
- Manufacturing Engineering II Mechanics of Fluids II, Mechanics of Fluids III
- Mechanics of Solids III
- Online Research Skills and Techniques Professional Engineering Management
- **Optional modules include:**
- Engineering Advanced Metals and Materials
- Processing
- Advanced Vibrations
- Energy in Transport
- Energy Systems and Climate Change
- Heat Transfer
- Materials Science and Engineering

# WHY STUDY AT UCD?

#### **Professional Work**

#### Experience

6-8 month Professional Work Experience Internship opportunity

#### Tradition





# **Global** profile



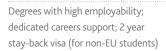
UCD is ranked in the top 1% of higher education institutions worldwide



#### Global community

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

**Global careers** 



### Safety

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





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).

# APPLY NOW

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

# ENTRY REQUIREMENTS

- 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.

## INTERNATIONAL STUDENTS

- Option to stay in Ireland to seek employment and/or work for 2 years after graduating
- Approved by US Dept. of Education for federally supported loans
- Apply for University non-EU Scholarships: www.ucd.ie/international/scholarships
- Apply for College of Engineering & Architecture scholarships: www.ucd.ie/ eacollege/study/noneuscholarships

**CONTACT US** 

# RELATED MASTERS PROGRAMMES OF INTEREST

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

## FEES

Fee information is available www.ucd.ie/fees



# **STUDENT PROFILE**

## Cathal McClean

From a young age I have always been passionate about aircraft and flight, and this was the primary driving factor in my choice of Mechanical Engineering. Throughout my studies in UCD it's been amazing to see my interests change simply from airplanes generally, to the calculations, materials, simulation, and manufacturing processes that contribute to keeping them in the air.

In the first year of the master's I was able to spend eight months in an aircraft maintenance organization, which gave great context to the theory learned in classroom modules. Following on from this, I was fortunate enough to do a research thesis on the topic of fracture of composites; a 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. Where you are interested in fluid dynamics, or control systems, or micro manufacturing, or 3D printing, the framework is there to pursue these areas.

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