



University College Dublin  
Ireland's Global University

## ME CIVIL, STRUCTURAL & ENVIRONMENTAL ENGINEERING (TWO YEARS FULL TIME)

This programme prepares graduates to work as professional engineers in the broad field of infrastructural design, construction and management. Graduates will satisfy the academic requirements for the title of Chartered Engineer. You can choose a specialisation either in civil, structural or environmental engineering and as such the range of module options is extensive. The programme is delivered by a culturally diverse group of internationally renowned academic staff.

The ME programme is professionally accredited by Engineers Ireland and recognised by the Washington Accord for Chartered Engineer status.



### WHY STUDY AT UCD?



#### Professional Work Experience

6-8 month Professional Work Experience internship opportunity



#### Tradition

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 8,400 international students from over 140 countries study at UCD



#### 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

### TOP INTERNATIONAL RANKING

This programme is delivered by a highly research intensive school, which is in the top 200 in the QS world subject rankings. UCD Civil Engineering has made major investments in recent years to modernise and improve its research capability across a range of sub-disciplines and to establish facilities for world class research. Facilities include laboratories for structural testing, concrete, soils, road materials, hydraulics, water and effluent analysis, PC and workstation facilities and an engineering workshop.

### COURSE CONTENT AND STRUCTURE

120 credits  
taught master's

70 credits  
taught modules

30 credits  
work placement

20 credits  
research project

#### Core Modules include:

- Case Studies
- Civil Engineering Systems
- Professional Engineering (Management)
- Geotechnical Engineering
- Highway Engineering
- Innovation Leadership
- Quantitative Methods for Engineers
- Design of Structures
- Water Engineering
- Transportation Engineering

#### Optional modules include:

- Advanced Air Pollution
- Advanced Materials
- Analysis of Structures
- Bridge Engineering
- Computational Continuum Mechanics
- Design of Structures
- Environmental Engineering
- Environmental Impact Assessment (Biology & Environmental Sci)
- Geographical Information Systems
- Geotechnics
- Hydraulic Engineering Design

- Life Cycle Assessment
- Measurement and Instrumentation
- Professional Engineering Finance
- Realising Built Projects
- Statistical Machine Learning
- Structural Dynamics
- Technical Communications
- Transport Operations and Planning
- Waste management
- Water, Waste and Environmental Modelling
- Water and Wastewater Treatment Processes



## CAREER OPPORTUNITIES

Graduates from the programme will find employment as engineers in the private sector (e.g., engineering consultancy, engineering design, project management, civil engineering contractors), in the public sector (e.g., local government, higher education sector), and in the non-governmental sector (e.g., environmental advocacies, NGOs), or may wish to pursue further qualifications (e.g., PhD, MBA) to become even more specialised. Graduates will be equipped with the skills that allow them to be lifelong learners, whether in the pursuit of knowledge for personal use or in connection with their engineering careers. Employers of civil, structural and environmental engineers include commercial firms, engineering consultancies, government agencies, and non-governmental organisations, all well known in Ireland and many with global operations. Some of these include:

- AECOM
- Arup
- Environmental Protection Agency
- Local Authorities
- Nicholas O'Dwyer
- RPS Group
- SISK



## STUDENT PROFILE

### Enoch Ademo

I picked the ME in Civil, Structural and Environmental Engineering degree because it allows me to combine three different courses in one because it covers three different branches of Civil Engineering in one master's programme. It also allows me to explore areas such as geotechnical engineering and covers case studies which gives you real-life solutions to real life practical problems. While the course content is challenging and you are kept on your toes, it makes you think fast and equips you with real insight knowledge on how to achieve and how to prepare solutions to problems that we meet every day. As part of the course you also complete an eight-month internship to a civil engineering company, to gain valuable knowledge and gain valuable insight. I got an internship at Waterman Wayland and with them I hope to gain skills and further my knowledge as I build towards a good career when I finish my master's in UCD.

## APPLY NOW

This programme receives significant interest so please apply early online at [www.ucd.ie/apply](http://www.ucd.ie/apply)

## ENTRY REQUIREMENTS

- A 4-year bachelor's degree in Civil or Structural Engineering with a minimum upper second class honours (NFQ level 8) or international equivalent.
- 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/>

## SCHOLARSHIPS

- Dedicated scholarships for non-EU students
  - Apply for University Scholarship [www.ucd.ie/global/study-at-ucdscholarshipsfinances/scholarships/](http://www.ucd.ie/global/study-at-ucdscholarshipsfinances/scholarships/)
  - Apply for College scholarship [www.ucd.ie/eacollege/study/nonescholarships](http://www.ucd.ie/eacollege/study/nonescholarships)
- Approved by US Dept of Education for federally supported loans

## WORK IN IRELAND

Option to stay in Ireland to seek employment and/or work for 2 years after graduating.

## FEES

Fee information is available at [www.ucd.ie/fees](http://www.ucd.ie/fees)

## RELATED MASTER'S PROGRAMMES OF INTEREST

- MEngSc Structural Engineering
- MEngSc Water, Waste & Environmental Engineering

## CONTACT US

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