

# ME Civil, Structural & Environmental Engineering

## Two Years Full Time (September start)



## Introduction

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.

## Course Highlight

This programme is delivered by the top ranked civil engineering department in Ireland according to the QS World subject rankings for Civil and Structural Engineering. UCD Civil Engineering has also 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.

## Course Content and Structure

- 120 credits taught master's
- 70 credits taught modules
- 20 credits Research Project
- 30 credits Work Experience

### Core modules include:

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

### Optional modules may include:

- Advanced Air Pollution
- Analysis of Structures
- Bridge Engineering
- Structural dynamics
- Environmental Engineering
- Statistical machine learning
- Geotechnics
- Hydraulic Engineering Design
- Transport Modelling
- Realising Built Projects
- Transport Operations and Planning
- Water and Wastewater Treatment Processes
- Life cycle assessment

## Why study at UCD?



### Graduate education

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



### Global community

Over 11,000 international students from more than 152 countries



### Global profile

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



### Global careers

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



ENGINEERS  
IRELAND

ACCREDITED PROGRAMME



## 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 nongovernmental organisations, all well known in Ireland and many with global operations. Some of these include: AECOM, Arup, Environmental Protection Agency, Local Authorities, Eirgrid, RPS Group, SISK, Jacobs.

## Graduate Profile

Enoch Ademo  
Waterman Moylan Consulting



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 Moylan 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.

## Applicant Profile

- ◆ Applicants must hold a 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-Master's Pathway. Full details [www.ucd.ie/alc/programmes/pathways/](http://www.ucd.ie/alc/programmes/pathways/)

### International Fees and Scholarships

Tuition fee information is available on [www.ucd.ie/fees](http://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 master's programme. Please see [www.ucd.ie/global/scholarships/](http://www.ucd.ie/global/scholarships/) for further information.

### Related Master's Programmes of Interest

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

#### CONTACT US

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**W:** [www.ucd.ie/global](http://www.ucd.ie/global)

#### APPLY NOW

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