



University College Dublin  
Ireland's Global University



## ME Civil, Structural & Environmental Engineering (Two Year 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 are extensive. The programme is delivered by a culturally diverse group of internationally renowned academic staff.

### Premier facts

This programme is delivered by a highly research intensive School which is in the top 101–150 in the QS world subject rankings and 68 by scientific citation rankings. It offers an internship as an accredited element of the programme.

## 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  
masters

65 credits  
taught modules

30 credit  
work placement

25 credits  
research masters

### Modules include:

- Civil Engineering Design
- Civil Engineering Systems
- Geotechnical Engineering
- Water Engineering
- Construction Management
- Design Project
- Highway Engineering
- Quantitative Methods for Engineers
- Professional Engineering Management

### Optional Modules include:

- Waste management
- Structural Dynamics
- Advanced Structural Analysis and Design

- Fibre Reinforced Composites
- Innovation Leadership
- Environmental Impact Assessment (Biology & Environmental Sci)
- Professional Engineering Finance
- Computational Continuum Mechanics I
- Geographical information systems
- Realising Built Projects
- Water, Waste and Environmental Modelling
- Integrated Municipal Solid Waste Management
- Creative Design and Idea Development
- Applied Statistical Modelling
- Environmental Engineering and Reliability

- Environmental Law
- Advanced Environmental Economics
- Transportation Engineering
- Professional Work Experience (June to August)
- Peer Assisted Tutoring in CSEE
- Unit Treatment Process in Water Engineering
- Hydraulic Engineering Design
- Bridge Engineering
- Soil Mechanics and Geotechnical Engineering
- Soil-Structure Interaction
- Structural Design (Buildings)
- Transport Operations and Planning



## 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, NGO's), 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:

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



## Graduate Profile

### Mark Gilsenan, AECOM

I completed this ME programme in September 2012 in order to meet the new minimum education requirement for becoming a chartered engineer. The modules offered as part of the ME programme were both interesting and challenging. One aspect of the ME programme I particularly enjoyed was the research project undertaken in Year Two of the programme. It afforded me the opportunity to conduct extensive research into an area of civil engineering using my own initiative and guided by an academic. I am currently working in Essex, UK in the bridges division of AECOM, a worldwide engineering consultancy, which was advertised through the programme's social media channels. Having an ME in Civil Engineering was essential in securing this position. I would highly recommend the programme.

## 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 bachelors degree in a related Engineering discipline with a minimum upper second class honours (NFQ level 8) or international equivalence.
- 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](http://www.ucd.ie/international/scholarships)

## Related Masters Programmes of Interest

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

## Fees

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

## Contact Us

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