



University College Dublin
Ireland's Global University

ME ELECTRONIC & COMPUTER ENGINEERING (TWO YEARS FULL TIME)

Ireland has evolved into one of the world's most important centres for high-tech businesses. The ICT sector in Ireland is a thriving and growing industry with 9 of the top 10 global ICT companies maintaining a presence in Ireland. The economic contribution of the sector is substantial. The ICT industry is responsible for approximately 25% of Ireland's total turnover, representing one-third of Ireland's exports by value. This ME in Electronic & Computer Engineering is a two-year programme designed to develop professional engineers who can

excel in the electronic and computer sectors worldwide. 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

PROFESSIONAL WORK PLACEMENTS PROVIDED

Delivered by a highly research-intensive School composed of many internationally high-profile academics including five IEEE Fellows. This two-year programme provides 6-8 months' professional work experience as an embedded element of the programme.

COURSE CONTENT AND STRUCTURE

120 credits
taught master's

65 credits
taught modules

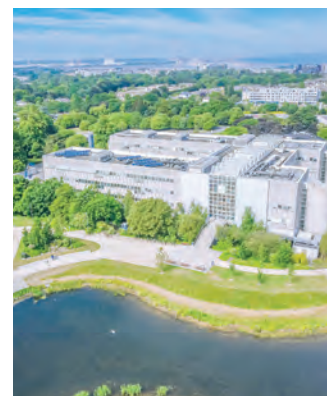
30 credits
work placement

25 credits
research project

Modules cover the following topics:

- Analogue Integrated Circuits
- Communications Theory
- Computer Networks
- Control Theory
- Digital Communications
- Digital System Design
- Electromagnetic Waves
- Embedded Systems
- Entrepreneurial Management
- Data Science
- Neural Engineering
- Information Security
- Photonic Engineering
- Professional Engineering Management
- Signal Processing
- Software Engineering
- RF Electronics
- Wireless Systems

Project topics are spread across a wide range, but related to and drawing on the topics covered in the taught modules. Similarly, your work placement can involve a variety of roles in a range of different companies in the electronic and computer engineering field.



CAREER OPPORTUNITIES

There are excellent job opportunities available in the ICT sector in Ireland. The Irish Government is to amend the work permit processing system in a bid to attract overseas workers to fill skill gaps in crucial areas like ICT and engineering. The Government has an ongoing commitment to generate thousands of jobs in the ICT sector every year.

At present there are as many as 5,000 job vacancies in Ireland's burgeoning ICT sector and this gap could grow as Ireland hurtles towards becoming the digital capital of Europe. Prospective employers include Accenture, Analog Devices, Intel, Microsoft, SAP, Synopsys, Xilinx, Qualcomm, Google, Facebook and LinkedIn.



APPLY NOW

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

ENTRY REQUIREMENTS

- A 4-year bachelor's degree with a minimum upper second class honours (NFQ level 8) or international equivalent in an Electrical, Electronic or Computer Engineering programme.
- 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.

SCHOLARSHIPS

- Dedicated scholarships for non-EU students
 - Apply for University Scholarship www.ucd.ie/global/study-at-ucdscholarshipsfinances/scholarships/
 - Apply for College scholarship www.ucd.ie/eacollege/study/noneuscholarships
- Approved by US Dept of Education for federally supported loans

FEES

Fee information is available at www.ucd.ie/fees

WORK IN IRELAND

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

RELATED MASTER'S PROGRAMMES OF INTEREST

- ME Optical Engineering
- MEngSc Electronic & Computer Engineering
- MSc Advanced Software Engineering
- MSc Computer Science NL (Negotiated Learning)
- MSc Digital Investigation & Forensic Computing
- MSc Information Systems

GRADUATE PROFILE

Ruth Fitzmaurice
Intel

I studied electronic and electrical engineering at UCD and graduated with a Bachelor of Science degree in 2017. I then moved on to complete a master's in electronic and computer engineering also in UCD.

When looking at postgraduate courses, the electronic and computer engineering masters at UCD stood out to me due to its excellent facilities and respected lecturers. The two-year course includes an 8-month internship, 3 trimesters of taught subjects and an 8-month research project. For my internship, I worked with the Internet-of-Things and Wearables Group at Intel. Working within Intel as an intern gave me the opportunity to enhance the technical and problem-solving skills I acquired throughout my previous three years at UCD.

Both my electronic engineering degrees from UCD have given me the knowledge and experience that I will use in the future and therefore I would strongly recommend this course. I am currently working as a Graduate Product Development Engineer with the Manufacturing Verification and Performance Group in Intel.

CONTACT US

EU Students – Katie O'Neill E: katie.oneill@ucd.ie T: +353 1 716 1781 W: www.ucd.ie/eacollege

International Students – E: eamarketing@ucd.ie/international@ucd.ie T: +353 1 716 8500 W: www.ucd.ie/global