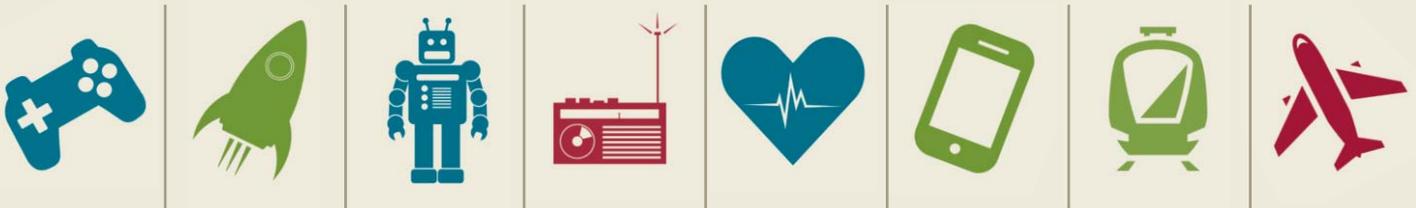


ENGINEERING YOUR FUTURE

STUDENT GUIDE

ENGINEERS TAKE IDEAS AND TURN THEM INTO REALITY, USING SCIENCE, MATHS AND IMAGINATION. ENGINEERS ARE MASTERS OF PROBLEM-SOLVING AND CREATIVE DESIGN. AS A CAREER, ENGINEERING OFFERS A CHANCE TO MAKE A DIFFERENCE TO PEOPLE'S LIVES, WHILE YOU ENJOY A DYNAMIC AND VARIED WORKING LIFE.



Right now, engineers around the world are working on innovative projects from solar energy to synthetic organs, driverless cars to virtual reality headsets.

An engineering qualification offers a chance to do interesting work with interesting people, enhance people's lives, and explore almost unlimited career opportunities.

IS ENGINEERING FOR YOU?

- Are you naturally curious about how things work?
- Do you love solving problems?
- Do you enjoy making, breaking or designing things?
- Do you like the idea of working as part of a team?
- Are you competent* in mathematics?

If you answered yes to most of these questions, engineering might be right for you!

** While not necessarily excelling at mathematics, most engineers are comfortable with the subject. Many engineering courses offer extra maths support to students in First Year. Higher Level maths is not a requirement for every engineering course.*

HOW DO ENGINEERS MAKE A DIFFERENCE?



"Engineering gives me the ability to design the future. It allows me to help shape future technologies, from advanced forms of energy to cutting edge medical products - all to improve daily life around the globe."

*Colin Keogh,
mechanical & energy engineer*



"Engineering gives you the tools to problem-solve and allows you to work in any area, from producing a simple water filter in the African desert to building a rocket to send people to Mars".

*Elaine Doyle,
manufacturing engineer*



"I know when I go into work in the morning that I am helping someone's life. People are using our products all over the world."

*Claire Lillis,
mechanical design engineer*





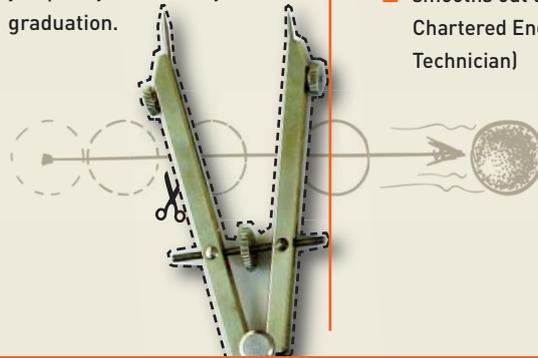
A STRONG FOUNDATION FOR YOUR WORKING LIFE

ENGINEERING IS A BROAD, DIVERSE FIELD OF STUDY WITH MANY ENGINEERING DISCIPLINES INCLUDING:

- Aeronautical
- Biomedical
- Biosystems, agriculture and food
- Building services
- Chemical and process
- Civil
- Computer and software
- Electrical
- Electronic
- Environmental
- Manufacturing and industrial
- Materials
- Mechanical
- Mechatronic/electromechanical
- Structural

STUDYING ENGINEERING

You can choose a specialised course that reflects your interest in a particular area or, if you want to keep your options open, a general engineering degree will give you plenty of flexibility after graduation.



THINKING OF STUDYING ENGINEERING?

> CHECK YOUR COURSE IS ACCREDITED BY ENGINEERS IRELAND

Accreditation functions like a 'quality mark'. Graduation from an accredited course...

- enhances your employability
- assures international employers of the quality of your qualification
- smooths out the process of attaining a registered title (e.g. Chartered Engineer, Associate Engineer, Engineering Technician)

CHECK YOUR CHOSEN COURSE IS ACCREDITED BEFORE APPLYING - VISIT ENGINEERSIRELAND.IE/SERVICES

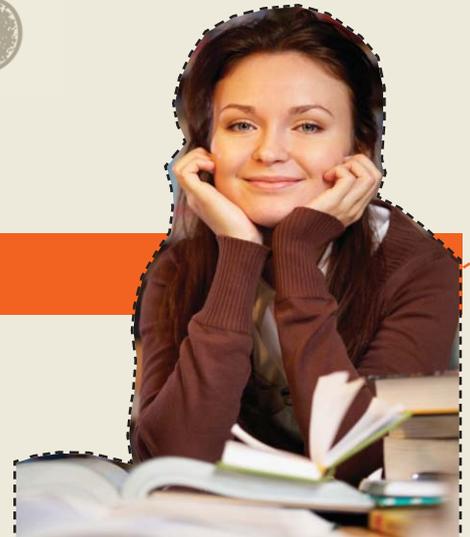
ARE ENGINEERS IN DEMAND?

RIGHT NOW IN IRELAND:

- 105,000+ people work in the technology sector
- 250 medical technology companies employ 25,000 people
- 160 games companies employ 3,300 people

IRELAND IS HOME TO:

- nine of the top 10 software companies
- nine of the top 10 global pharmaceutical corporations
- 12 of the top 20 global internet firms
- seven of the top 10 industrial automation companies



REVIEW EACH COLLEGE PROSPECTUS CAREFULLY FOR A COMPLETE GUIDE TO YOUR CHOSEN COURSE

DO ENGINEERS GET TO TRAVEL MUCH?

Many engineers are required to travel for work, whether to visit different sites or to meet clients in various locations. Many large companies have international offices.



WHAT ELSE CAN YOU DO WITH AN ENGINEERING DEGREE?

Engineering gives the flexibility to explore many different career paths. Engineering students gain a valuable set of skills that serve as a strong career foundation. These skills are valued by all employers. In a US survey of the top 500 companies on the stock market, 33% of CEOs had an engineering degree.

I CAN'T DECIDE ON AN ENGINEERING DISCIPLINE.

WHAT DO YOU ADVISE?

There are plenty of general engineering courses. You can then specialise in a particular area that interests you. Also, many courses offer general engineering for the first year or two.

WHAT DO ENGINEERS EARN?

According to Engineers Ireland, graduate engineers earn €28,000 and engineers with 3 years experience earn €38,000.

