

Engineering

The exciting versatile career of choice

Have you ever wondered who invented spacecraft and made airplanes fly, how water sources can be developed in countries suffering drought or how the improved graphics in computer games and movies are created? They are all technical innovations imagined, designed and created by engineers.

What is Engineering?

Engineering is an exciting career which plays a fundamental part in our everyday lives. The engineer will bring a figment of the imagination from dream to reality with the help of science, technology and ingenuity.

The purpose of engineering is to increase the comfort and standard of living for all people on our planet in a sustainable way that will help our environment to survive and improve for generations to come.



Leonardo da Vinci

He was an inventor, artist and scientist! Leonardo is an example of an early engineer and he illustrates the mixture of talents and interests an engineer can have.

What choices are there?

There is a huge range of engineering disciplines to choose from, illustrating how engineers impact on daily life. Once qualified in your chosen area there are even further choices and alternative career paths to travel. A career in engineering can involve working indoors or outdoors, dealing with intricate designs or supervising projects, inventing or implementing ideas. An engineering qualification provides valuable portable skills that can help lead into other careers such as aiding the developing world, travelling abroad, even a directorship in another sector. Also if you cannot make up your mind between the variety of disciplines you can apply to one of the general courses available in third level education and specialise later!

Career in Engineering



- Aeronautical
- Biomedical
- Biosystems, Agriculture & Food
- Building Services
- Chemical Engineering
- Civil Engineering
- Computer & Software Engineering
- Electrical Engineering
- Electronic Engineering
- Industrial & Manufacturing
- Mechanical Engineering

Team Effort

Just like a school project, good sports club or drama group teamwork is essential to a successful career in engineering and the engineering team includes the valuable inputs of technicians and engineers. The wide-ranging certificate and degree programmes available to study nationwide offer a very accessible path into this innovative and financially rewarding career.

Just remember!

- Certificate >>> Engineering Technician
- Degree (Ordinary) >>> Associate Engineer
- Degree (Honours) >>> Engineer



Sir Isaac Newton
Discovered the laws of how objects move by using his natural curiosity!



Senior Cycle

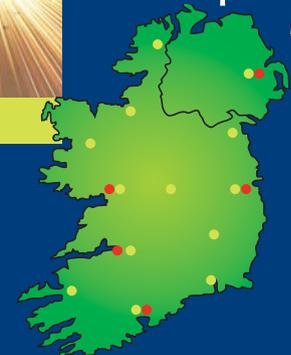


Third Level



Career

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Where to Study?

Universities

- Dublin City University
- University of Dublin, Trinity College
- University College Dublin
- National University of Ireland, Maynooth
- University College Cork
- University of Limerick
- National University of Ireland, Galway
- University of Ulster (Jordanstown Campus)
- Queen's University, Belfast

Institutes of Technology

- A Institute of Technology, Blanchardstown
- B Dublin Institute of Technology
- C Institute of Technology, Tallaght
- D Institute of Technology, Carlow
- E Waterford Institute of Technology
- F Cork Institute of Technology
- G Institute of Technology, Tralee
- H Limerick Institute of Technology
- I Galway-Mayo Institute of Technology
- J Athlone Institute of Technology
- K Institute of Technology, Sligo
- L Letterkenny Institute of Technology
- M Dundalk Institute of Technology



Primary



Junior Cycle

Who & How?

Engineers are generally inquisitive people, who enjoy puzzles, problem solving and scientific technologies. They like to find out how things work and generally want to make things better such as the environment, public services or machines to name but a few! If you want a career in engineering you need to choose science subjects, e.g. physics and chemistry, for the Leaving Certificate.

As for maths in your leaving certificate, the certificate and ordinary degree programmes require a pass

mark in ordinary maths and the honours degree programmes require an honours mark in honours maths. The qualifications are versatile to attract people of varying interests and all roles are valued as part of the engineering team.

There is also the possibility of continuing to the honours degree qualification after completion of some ordinary degree courses. Once again there are a lot of choices in this stimulating career!



Will you be the next innovator of new ideas, inventions and technologies?

For more information, be sure to contact us at: www.steps.ie