



Types of Engineering Careers

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Aeronautical Engineer

If you are passionate about aircraft and engineering, then a job as an aeronautical engineer could be for you. From civilian airliners to spacecraft and military hardware, the aeronautics sector is diverse and rewarding.

Some alternative job titles for this role

- Aerospace Engineer
- Design/Systems/Test Engineer

Introduction

An aeronautical engineer designs, constructs and tests safer and more energy efficient aircraft, missiles, spacecraft, satellites and unmanned aerial vehicles (drones). Aeronautical engineers can specialise in: structural design; flight mechanics and control systems; aerodynamics; instrumentation and communication; along with manufacturing and maintenance.

What the job involves

- Design the body of aircraft, including shape testing, selecting the right materials for manufacturing and strength and structural modelling
- Check the performance of an aircraft in terms of stability and control
- Develop automated control systems for aircraft and test them
- Improve the aerodynamics of moving aircraft through design and testing, ensuring the craft flies smoother and faster
- Supervise the construction of aircraft in line with strict safety and design requirements

How your career can develop

Promotion to senior engineer level is possible and with more experience, you can be promoted to principal engineer level and beyond. Aeronautical engineers may often travel to different parts of the world to meet clients, suppliers and manufacturers as part of their work.

Why it matters?

While studying at the University of Limerick, graduate Pio Fitzgerald secured an internship with airline manufacturer Boeing and was subsequently recruited by the aviation giant. He then went on to become Boeing's 'Engineer for the Year' after he successfully solved an aerodynamic problem on the wing of the company's 747-8 jumbo aircraft. He was also nominated for Flightplan's Innovator of the Year award, alongside billionaire innovator Elon Musk.

Skills

- Good mathematical and technical skills including physics
- Ability to think methodically; to design, plan and manage projects

- Ability to maintain an overview of entire projects while paying attention to detailed technical issues that might arise
- Excellent verbal and written communication skills
- Negotiating, supervisory and leadership skills combined with the ability to delegate

Typical employers

- Aircraft component manufacturing companies
- Irish Air Corps
- Airline operators
- Defence industry

Typical salary

Graduate/Starting €30,000

Senior/Potential €55,000+

Typical qualifications

An extremely regulated industry, aeronautical engineering has strict entry requirements and requires continuous skills upgrades. At entry level, you will need a degree in aerospace/aeronautical engineering, but degrees in the following areas can also act as gateways to the industry:

- Mechanical engineering
- Electronic/electrical engineering
- Manufacturing engineering
- Product engineering
- Physics and applied physics
- Software engineering
- Maths

Alternative routes to a bachelor's degree in these areas may apply to students that have a PLC qualification in a related course or general engineering certification or diploma. For further details on eligibility requirements for third level entry following a PLC qualification, students should visit the CAO course search at www.careersportal.ie/courses/simple_search.

Further information

- Federation of Aerospace Enterprises in Ireland (FAEI) www.faei.ie
- Institution of Engineers Ireland www.engineersireland.ie
- Irish Aviation Authority (IAA) www.iaa.ie
- Royal Aeronautical Society www.aerosociety.com
- Everything Aerospace e-magazine:
www.independentezines.co.uk/everythingaerospace

- Video: *Aeronautical engineer designs drone*;
www.youtube.com/watch?v=CNHmliqZ-Ac

If you are interested in a career in aeronautical engineering, visit Qualifax (www.qualifax.ie) to search for relevant courses at all levels and entry points.

Biomedical Engineer

Ireland is now a global centre for the medical devices industry so this is a perfect time to consider a career as a biomedical engineer.

Some alternative job titles for this role

- Clinical Engineer
- Orthopaedic Engineer
- Rehabilitation Engineer
- Biomechanical Engineer
- Biomaterials Engineer

Introduction

Biomedical engineering has a huge impact on the world we live in today. There are now a variety of medical devices and machines that can both improve health and save lives, thanks to biomedical engineering. Biomedical engineering is the combining of engineering expertise with the world of clinical medicine, developing technologies such as laser systems used in corrective eye surgery and systems for analysing blood.

Biomedical engineering is key in the development and creation of artificial organs, limbs and skin. The biomedical engineer will work with healthcare professionals including physicians, doctors, nurses, therapists and technicians.

What the job involves

- Research problems at the microscopic level to understand disease processes
- Select appropriate materials for implantations in the human body such as artificial pace makers, hips, and kidneys
- Biomechanical engineers apply classical mechanics to biological or medical problems to develop such devices as the artificial heart and artificial joint replacements
- Rehabilitation engineers enhance the capabilities and improve the quality of life for people with physical and cognitive impairments through the design and development of prosthetics and technology
- Orthopaedic engineers apply methods of engineering to understand the function of bones, joints and muscles to design artificial joint replacements
- Neuroscience engineers research into the processes involved in brain functions and provide information for a number of psychiatric disorders
- Clinical engineers specialise medical equipment technologies

How your career can develop

Engineering provides a host of exciting opportunities for inventive and driven professionals. There's a high degree of job flexibility and often rapid progress on to creative, responsible and financially rewarding careers.

Why it matters?

At GMIT's Biomedical Sciences Research Institute, researchers have developed bio-simulators which can replicate different bodily functions and diseases, based on medical data. These are computer and medical simulations that allow scientists to develop better ways of treating illness and disease.

Skills

- Excellent measurement and analysis skills
- Attention to detail
- Design skills
- Ability to empathise with patient
- An analytical and enquiring mind
- Strong maths skills
- Excellent IT skills

Typical employers

- Medical device developers and manufacturers
- Government bodies and medical device regulatory bodies
- Hospitals
- Self employed as a consultant
- Research centres

Typical salary

Graduate/Starting	€30,000
Senior/Potential	€53,500+

Typical qualifications

A science or engineering degree is the usual entry point. The following degrees are the most common:

- Biomedical
- Applied science
- Computation
- Mathematics
- Life/medical science
- Mechanical or chemical engineering

A postgraduate qualification can be beneficial – particularly for non-engineering graduates.

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Further information

- Institute of Physics and Engineering in Medicine: www.ipem.ac.uk
- Biomedical/chemical Engineering Association: www.beai.ie
- Northern Ireland Biomedical Engineering Society: www.nibes.org
- Video: *What is biomedical engineering?* www.youtube.com/watch?v=Sn0bOX5Hau4

If you are interested in a career in biomedical engineering, visit Qualifax (www.qualifax.ie) to search for relevant courses at all levels and entry points.

Chemical Engineer

Chemical engineers work in a vast range of scientific fields from water and waste water treatment, to generating electricity from biomass, to producing our food, drinks and cosmetics... to name just a few!

Some alternative job titles for this role

- Process Engineer
- Biochemical Engineer
- Food/food Hygiene Engineer
- Pharmaceutical Engineer
- Thermo-fluid Engineer
- Chemical Technologist
- Chemical Technician

Introduction

Chemical engineers solve problems associated with the production and use of chemicals and biochemicals. It is based on the principles of chemistry, physics, biology and mathematics and is responsible for the production of chemicals for use in our everyday lives. Chemical engineers strive to create and develop the best possible methods to manufacture useful products and services. They respond to society's growing demands for new innovative products and for improved use of our limited natural resources.

What the job involves

- Pilot new methods for manufacturing products
- Oversee the implementation of those methods in full-scale production
- Develop novel and cost-effective processes for recovering valuable raw materials, such as fossil fuels or anti-cancer agents
- Generate and efficiently mass-produce new medicines
- Produce new, cleaner fuels, from plants or other renewable resources
- Design pollution prevention technologies

How your career can develop

The chemical and biopharmaceutical industries are among the fastest growing sectors in Ireland with many exciting and rewarding career opportunities for graduates, both at home and abroad. Chemical engineering is a highly transferrable skill and there are plenty of opportunities to specialise. Experience and a postgraduate degree will often ensure rapid career progress.

Why it matters?

Chemical engineers play a key role in shaping in our lives, from refining oil, to cleaning water, to developing one of the world's most popular and widely used stationary product, the Post-it Note. The Post-it Note was developed by Spencer Silver in 1968 who was a chemical engineer working on pressure-sensitive adhesives for the aerospace industry.

Spencer accidentally added too much chemical reactant to the experiment and thus became the adhesive used in Post-it Notes.

Skills

- Good maths and science skills, particularly chemistry
- Good problem-solving and analytical skills
- Planning and organisational ability
- Excellent IT skills
- The ability to manage projects, budgets and people
- Good spoken and written communication skills
- The ability to work as part of a team
- A clear understanding of the commercial application of science

Typical employers

- Pharmaceutical companies
- Chemicals and agrochemicals companies
- The oil and gas industry
- Food and drink manufacturers and research labs
- Cosmetics and toiletries
- The paper and printing sectors
- Plastic and metals companies
- Fibres and polymers developers and manufacturers
- Chemical engineering consultancy and contracting firms

Typical salary

Graduate/Starting	€30,000
Senior/Potential	€90,000+

Typical qualifications

A bachelor's degree in biological or chemical engineering or a primary degree in a science related area is necessary for applications for master's courses. An MSc in biological or chemical engineering is almost always required to ensure career development. Other gateway degree qualifications include:

- Chemistry
- Physics
- Bioprocess engineering
- Biochemical engineering

Alternative routes to a bachelor's degree in this area may apply to students that have a PLC qualification in a related course or general engineering certification or diploma. For further details on eligibility requirements for third level entry following a PLC qualification, students should visit the CAO course search at www.careersportal.ie/courses/simple_search.

Further information

- The Institute of Chemistry in Ireland: www.chemistryireland.org
- The Institute of Food Science and Technology: www.ifst.org
- The Biomedical & Clinical Engineering Association of Ireland: www.beai.ie
- The Institution of Chemical Engineers: www.icheme.org
- Video: *Introduction to Chemical Engineering*;
www.youtube.com/watch?v=WgWNQVdhE9A

If you are interested in a career in chemical engineering, visit Qualifax (www.qualifax.ie) to search for relevant courses at all levels and entry points.

Civil Engineer

Civil engineering offers a challenging, rewarding and wide-ranging career blending creativity with an engineer's mind-set.

Some alternative job titles for this role

- Transportation Engineer
- Environmental Engineer
- Construction Engineer
- Geotechnical Engineer



Introduction

Civil engineering is all about improving and protecting the world we inhabit. It involves the planning, design and construction of facilities that we require for everyday living, industry and transport. A career in civil engineering can range from the development of airports, offshore oil platforms, bridges, roads, railways, waste collection and treatment systems, and water supply systems. Civil engineering also aims to solve environmental issues such as air pollution, coastal protection and waste treatment.

What the job involves

- Undertake technical site investigations
- Use a range of computer packages for developing detailed designs
- Undertake complex calculations
- Communicate with clients and a variety of professionals including architects and subcontractors
- Solve design and development problems/challenges
- Manage budgets and project resources
- Schedule material and equipment purchases and delivery
- Ensure projects run smoothly and structures are completed within budget and on time

How your career can develop

There is currently an abundance of employment opportunities for the civil engineering team both in Ireland and internationally. With experience, there are plenty of opportunities to specialise in a diverse range of areas, including coastal and marine, power, water and roads to name a few. Promotion to senior engineer and principal engineer is achievable with further experience.

Why it matters?

In addition to public projects, civil engineering also has charitable uses. Recently, three young Dublin engineers travelled to Kenya after winning a prestigious competition aimed at harnessing modern technology to help underdeveloped countries.

Skills

- Critical, analytical thinking
- Strong visualisation skills – to visualize how complex components will come together in to a finished project
- Communication skills
- Advanced maths skills
- IT skills
- Ability to control and monitor budgets and costs
- Attention to detail

Typical employers

- Local authorities/County councils
- Civil engineering contractors
- Consultancies
- Private industry
- Materials research bodies

Typical salary

Graduate/Starting	€30,000
Senior/Potential	€60,000+

Typical qualifications

Degree in civil engineering. Graduates wishing to become chartered engineers now need to hold an accredited masters degree (level 9) or equivalent. Other gateway degree qualifications include:

- Construction engineering
- Structural engineering
- Environmental engineering
- Geomatics
- Mechanical engineering
- Electrical engineering

Alternative routes to a bachelor's degree in this area may apply to students that have a PLC qualification in a related course or general engineering certification or diploma. For further details on eligibility requirements for third level entry following a PLC qualification, students should visit the CAO course search at www.careersportal.ie/courses/simple_search.

Further information

- Engineers Ireland: www.engineersireland.ie/groups/divisions/civil.aspx
- The Association of Consulting Engineers of Ireland: www.acei.ie
- The Civil Engineering Contractors Association: cif.ie/about/associations/ceca.html
- The Institution of Structural Engineers: www.istructe.ie
- The Association of Consulting Engineers (UK): www.acenet.co.uk
- The Royal Institute of Architects of Ireland (RIAI): www.riai.ie

- *An inspirational video about the world of civil engineering:*
www.youtube.com/watch?v=7rqLZgEYtJg

If you are interested in a career in civil engineering, visit Qualifax (www.qualifax.ie) to search for relevant courses at all levels and entry points.

Electrical Engineer

Electrical engineering covers a wide range of career choices and offers tremendous scope for progress for dedicated professionals.

Some alternative job titles for this role

- Design Engineer
- Project Engineer
- Power Engineer
- Control Engineer
- Computer Engineer
- Systems Design Engineer
- Telecommunications Engineer
- Test Engineer

Introduction

Electrical engineers work with electricity in a variety of areas including aircraft and automobiles; broadcasting and communications systems; lighting and wiring in buildings; machinery controls; power generating and transmitting; and radar and navigation systems. They can be involved with the design of new products as well as testing equipment and solving problems.

What the job involves

- Design and research work on the generation, transmission and distribution of electricity
- Design a range of related devices such as transformers, electric generators, electric motors and power electronics
- Model and design dynamic control systems used in areas such as transport and aviation
- Design computers and computer systems
- In telecommunications, facilitate transmission of information across a channel such as a coaxial cable, optical fibre or free space
- Complete maps and technical drawings or specifications of electrical systems
- Incorporate public safety in all designs

How your career can develop

There is huge scope for specialisation in an electrical engineering role. Experienced electrical engineers sometimes go into project management or progress to taking on a management role. Some opt for an academic career or may become a self-employed consultant or contractor.

Why it matters?

Electrical engineers will be a core requirement behind the development of the largest ever wind farm constructed in Ireland located in Galway, at a cost of €240 million.

Skills

- Aptitude for design
- Keen interest in technology and engineering
- Knowledge of physics
- Good maths skills
- Interest and aptitude for computers and electronics
- Good problem-solving and analytical skills
- Planning and organisational ability

Typical employers

- Utility and power companies
- Sustainable energy suppliers and generators
- Energy research labs
- Telecommunications and other engineering industries
- Electronics developers and manufacturers
- Commercial electrical manufacturers
- Local authorities

Typical salary

Graduate/Starting	€35,000
Senior/Potential	€65,000+

Typical qualifications

Engineers who graduate after 2013 and wish to become chartered engineers will need to hold an accredited master's degree (level 9), or equivalent. Level 8 bachelor degrees will satisfy the requirements for Institution of Engineers Ireland membership only. Gateway degrees for the profession include:

- Electronics engineering
- Communications engineering
- Telecommunications engineering

Alternative routes to a bachelor's degree in this area may apply to students that have a PLC qualification in a related course or general engineering certification or diploma. For further details on eligibility requirements for third level entry following a PLC qualification, students should visit the CAO course search at www.careersportal.ie/courses/simple_search.

Further information

- Engineers Ireland: www.engineersireland.ie
- The Association of Energy Engineers Ireland: www.aee.ie
- The Irish Academy of Engineering: www.iae.ie
- Microelectronics Industry Design Association in Ireland: www.midasireland.ie
- The Institute of Electrical and Electronics Engineers (IEEE) – Irish branch: www.ieee-ukandireland.org

- Video: *A graduate engineer talks about her work*;
www.youtube.com/watch?v=ujrEme2UoLM

If you are interested in a career in electrical engineering, visit Qualifax (www.qualifax.ie) to search for relevant courses at all levels and entry points.

Electronic Engineer

Current and future generations of electronic engineers will work in a rapidly progressing job that is the driving force behind the development of the world's information technology.

Some alternative job titles for this role

- Electronics Technician
- Electronics Design Engineer
- Computer Engineer
- Microelectronics Engineer

Introduction

Electronic engineers create, design and develop everyday devices like mobile phones, portable music devices and computers. Electronic engineering offers a broad range of exciting career challenges including producing new innovations and developments in telecommunications, robotics, computing hardware and power and electrical equipment.

There are plenty of opportunities to focus in areas such as audio, visual and light electronic equipment; control systems and automation; and microelectronics and telecommunications. There is currently a shortage of electronic engineers in Ireland and around the world – a situation likely to continue for some time to come.

What the job involves

- Use a mix of science and mathematics along with engineering techniques to design, produce, install and maintain telecommunications systems
- Design and manage equipment used to control and monitor plant operations and machinery in many different areas
- Test new designs to create user-friendly interfaces
- Plan projects and prepare and manage budgets
- Write technical reports and keep up to date with developments in technology and regulations
- Evaluate operational systems and recommend modifications to create more efficient and reliable systems
- Use computer-assisted engineering and design software to perform engineering tasks

How your career can develop

A career as an electronics engineer can lead in many directions, and the long-term opportunities are excellent, especially given the current and projected shortages of qualified engineers. For those with strong initiative, interpersonal, teamwork and project-management skills, opportunities exist to move into managerial roles.

Why it matters?

In 2015, Intel, the computer chip giant, has committed \$50 million in electronic engineering resources as part of a 10-year partnership with a Dutch university to advance research in quantum computing, a relatively new term in computing which could revolutionise the entire computing industry.

Skills

- Complex problem-solving – a logical mind
- Critical thinking
- Strong interest in technology
- Strong maths ability
- Communications skills
- Strong IT skills
- Time management and ability to prioritise and plan work effectively

Typical employers

- Telecommunications providers – mobile phones, radio, TV and satellite companies
- Manufacturers and providers of PCs, tablets and ATM machines
- Scientific research - acoustics, optics, physics and nanotechnology
- Medical device and medical instrument manufacturers
- Aviation and aerospace companies
- The manufacturing sector

Typical salary

Graduate/Starting	€35,000
Senior/Potential	€65,000+

Typical qualifications

Engineers who graduate after 2013 and wish to become chartered engineers will need to hold an accredited masters degree (level 9), or equivalent. Level 8 bachelor degrees will satisfy the requirements for Institution of Engineers Ireland membership only. Gateway degrees for the profession include:

- Electrical engineering
- Communications engineering
- Telecommunications engineering

Alternative routes to a bachelor's degree in this area may apply to students that have a PLC qualification in a related course or general engineering certification or diploma. For further details on eligibility requirements for third level entry following a PLC qualification, students should visit the CAO course search at www.careersportal.ie/courses/simple_search.

Further information

- Engineers Ireland: www.engineersireland.ie

- The Irish Academy of Engineering: www.iae.ie
- Microelectronics Industry Design Association in Ireland: www.midasireland.ie
- The Institute of Electrical and Electronics Engineers (IEEE) – Irish branch: www.ieee-ukandireland.org
- Video: *A career guide to electronic engineering*;
www.youtube.com/watch?v=Yt8YBorpDMI

If you are interested in a career in electronic engineering, visit Qualifax (www.qualifax.ie) to search for relevant courses at all levels and entry points.

Mechanical Engineer

Mechanical engineering is one of the biggest and oldest of all the engineering areas but one that now brings together the very latest in technology and machines.

Some alternative job titles for this role

- Automotive Engineer
- Transport Engineer
- Aviation or Aerospace Engineer
- Mining Engineer
- Mechatronics (Mechanical and Electronics Engineer)
- Mechanical Technician

Introduction

Mechanical engineers are involved with almost every aspect of our lives, by inventing and designing machines such as computers, power generators and medical equipment.

Mechanical engineering offers graduates a huge variety of career paths across a wide range of industries including aeronautics, motor car and engine development, entertainment, electronics, medical and information technology.

What the job involves

- Determine project requirements
- Agree budgets, timescales and needs with clients and managers
- Communicate with suppliers
- Solve challenges
- Undertake relevant research
- Produce new designs and carry out test procedures
- Measure performance of mechanical components, devices and engines
- Test, evaluate, modify and retest products
- Write reports and documentation
- Provide technical advice
- Analyse data

How your career can develop

Career prospects are extremely bright for dedicated professionals. The mechanical engineers' versatility allows them to work in a range of roles including research, design, project management, technical sales, computer-aided engineering, process control, manufacturing engineering, aeronautics, materials engineering and product development. In these roles they serve nearly every industry, including the rapidly evolving energy sector.

Why it matters?

Two brothers from Perth Australia, who are both mechanical engineers are the founders behind Bombora Wavepower, which produces a wave energy converter device. The brothers

say each device will generate enough electricity to power 500 homes, on a par with the energy produced by an average onshore wind turbine, which could truly change the world through renewable energy.

Skills

- Strong technical skills
- Interpersonal skills
- Verbal and written communication skills
- Commercial awareness
- Team working skills
- Strong maths skills
- Strong problem solving skills
- IT skills

Typical employers

- Engineering, transport, manufacturing, construction and process companies
- Research and development organisations
- Consultancies
- Utilities
- The civil service
- Aviation components sector
- Mining and oil and gas companies
- Energy companies and utilities

Typical salary

Graduate/Starting	€30,000
Senior/Potential	€55,000+

Typical qualifications

Engineers who graduate after 2013 and wish to become chartered engineers will need to hold an accredited masters degree (level 9), or equivalent. Level 8 bachelor degrees will satisfy the requirements for Institution of Engineers Ireland membership only. Gateway degrees for the profession include:

- Electrical engineering
- Communications engineering
- Telecommunications engineering

Alternative routes to a bachelor's degree in this area may apply to students that have a PLC qualification in a related course or general engineering certification or diploma. For further details on eligibility requirements for third level entry following a PLC qualification, students should visit the CAO course search at www.careersportal.ie/courses/simple_search.

Further information

- Engineers Ireland: www.engineersireland.ie

- The Association of Energy Engineers Ireland: www.aee.ie
- The Irish Academy of Engineering: www.iae.ie
- The Institute of Electrical and Electronics Engineers (IEEE) – Irish branch: www.ieee-ukandireland.org
- Video: *Mechanical engineering – A career investigation*:
www.youtube.com/watch?v=ujX5bDqUVzA

If you are interested in a career in mechanical engineering, visit Qualifax (www.qualifax.ie) to search for relevant courses at all levels and entry points.

Software Engineer

Computer and software engineers are at the cutting edge of applied science and play an increasingly important role in all our lives. There is unlimited potential for dedicated professionals in this field.

Some alternative job titles for this role

- Computer Engineer
- Application Specific Integrated Circuit (ASIC) Design Engineer
- Computer Hardware Engineer
- Microprocessor Designer and Application Engineer
- Microelectronics Engineer

Introduction

Computer and software engineering is the creative application of engineering including the design and development of hardware and software computer systems. These systems play a major role in every aspect of our lives from entertainment and communications to healthcare and transport. Mobile phones, MP3 players and computerised cars are all developments which were realised by the ingenuity of computer and software engineers.

What the job involves

- Analyse software user needs and designing, constructing and maintaining computer applications software
- Design networks
- Produce specifications
- Cost new or modified systems
- Agree proposals
- Write new software and operating manuals
- Solve software-writing problems and maintenance issues
- Test the product to ensure that it operates satisfactorily
- Handle support and feedback
- Design and provide the computer system design specifications for the building of computer software applications
- Design, configure, implement and install complete computer systems

How your career can develop

Computer and Software engineering is experiencing significant growth both in Ireland and abroad. The need for well-qualified professional computer and software engineers, technologists and technicians is greater now than ever before.

Why it matters?

Software engineering is undergoing massive growth as a sector. Irish company Fenargo was set up by Irish software engineer Marc Murphy, who hopes to see the company grow revenues by €20 million a year until 2018.

Skills

- Excellent technical and problem-solving skills
- Good communication skills
- Teamwork skills
- Motivation
- Creativity and a willingness to learn
- Good maths skills
- Keen interest in technology

Typical employers

- IT consultancies
- Software firms
- Electronics developers
- Microchip developers
- Communications networks
- Any organisation that uses computer systems
- Self-employment is possible for individuals with several years' relevant experience

Typical salary

Graduate/Starting	€28,000
Senior/Potential	€75,000+ for software development manager

Typical qualifications

A degree in computing, software engineering, physics, mathematics or electronics is necessary for most entry positions. For graduates with non-computing degrees, full-time, part-time and distance learning postgraduate IT conversion courses are available at a wide range of institutions. The Irish Computer Society offers training and skills qualifications.

Alternative routes to a bachelor's degree in this area may apply to students that have a PLC qualification in a related course or general engineering certification or diploma. For further details on eligibility requirements for third level entry following a PLC qualification, students should visit the CAO course search at www.careersportal.ie/courses/simple_search.

Further information

- Irish Computer Society: www.ics.ie
- Irish software research centre: www.lero.ie
- Engineers Ireland: www.engineersireland.ie
- The Institute of Electrical and Electronics Engineers (IEEE) – Irish branch: www.ieee-ukandireland.org
- Video: *A day in the life of a software engineer*; www.youtube.com/watch?v=vt79JcPfZQA

If you are interested in a career in computer/software engineering, visit Qualifax (www.qualifax.ie) to search for relevant courses at all levels and entry points.