

## **Your Degree in Electronic Engineering...What Next?**

Electronic Engineers are behind the rapid development of information technology and create, design and develop everyday devices like mobile phones, tablets and computers. They also develop devices used in medicine, security and business. Electronic engineers apply their expertise in the way electricity is used to control equipment.

Electronic engineering offers a range of exciting career opportunities and challenges, including innovations and developments in telecommunications, robotics, computing hardware and electrical equipment. This is an exciting and creative profession with a range of career options.

Ideally you will spend a lot of your final year carefully researching your options which includes graduate employment or further study.

You can choose from these areas:

- **Microelectronics:** developing the miniaturisation of electronic systems including microchips and applying electronic engineering to medical applications to develop medical devices equipment, such as hearing aids and pacemakers
- **Personal devices:** Working on development of light electronic equipment including smartphones, tablets, game consoles, digital cameras etc
- **Control systems and automation:** the control of automated systems used in manufacturing industry, including robots, which are widely used in car and appliance manufacture
- **Transport:** Developing equipment to aid transport, including navigational control systems and radar
- **Audio-visual:** creating and advancing developments in the audio-visual aspect of the entertainment industry.

### **What skills have I gained?**

A qualification in electronic engineering is valued by employers for the skills and competencies you can bring to a career in industry. **Core skills gained from your engineering degree include:**

- Analysis and problem solving
- Logical and mathematical reasoning
- Research and analytical skills
- Teamwork
- Technical skills.

## **EMPLOYMENT**

**Jobs** are mainly in the design, development testing and maintenance of products and systems in the fields of all communications, signal processing and control systems. Graduates are well placed to apply for fulltime, entry level jobs upon graduation.

### **Employers in Ireland include:**

- Abbott
- Cypress Semiconductor
- Emirates Group
- Ericsson
- Intel Ireland
- Logiskills
- PE Global
- Ryanair
- Siemens
- Texas Instruments

Check the jobs page on CIT's Careers & Employability Service website; <http://www.mycit.ie/careers>.

### **GRADUATE PROGRAMMES**

You may wish to apply for a place on a graduate programme. These are paid work programmes, sometimes at various locations and many also offer opportunities for further training/education.

Companies often advertise graduate programmes or graduate jobs on the job page of a College/University Careers Service website as well as on [www.gradireland.com](http://www.gradireland.com)

Register with gradireland to get email alerts on employment opportunities as well as job search advice [www.gradireland.com](http://www.gradireland.com) You can pick up a copy of the **Gradireland Careers Directory** for Ireland (north and south) at the Careers & Counselling Service, 2<sup>nd</sup> Floor, Student Centre, CIT.

### **POSTGRADUATE STUDY**

A postgraduate qualification enables you to gain, more specialized knowledge of your primary degree field or develop knowledge in a complementary area. Postgraduate studies can give you a specific technical, vocational or professional qualification and facilitate you in developing a range of key skills including: research, analysis, evaluation and written communication.

For further information, go to the 'Further/Postgraduate Study' link on the Students page of our website; <http://www.mycit.ie/careers>.

See also [www.postgradireland.com](http://www.postgradireland.com) and Engineers Ireland [www.engineersireland.ie](http://www.engineersireland.ie)

### **PROFESSIONAL ACCREDITATION**

Engineers Ireland (EI) is the professional body in Ireland for engineers from all disciplines. Your BEng (Honours) degree from CIT is fully accredited by Engineers Ireland (EI) for membership eligibility. Since 2013, a Level 9 qualification is required to become a chartered engineer.

Visit: [www.engineersireland.ie](http://www.engineersireland.ie) to find out more.

EI runs a programme for graduates in their first job. The graduate transition programme is called the Future Professionals Programme and is run with a number of employers. See [more](#).

### **MORE INFORMATION**

Engineers Ireland [www.engineersireland.ie](http://www.engineersireland.ie)

**Disclaimer:** Information is provided in good faith by the CIT Careers Service. CIT, the Careers Service, and any contributing third party shall have no legal liability or responsibility for any individual's decision made on the basis of this information.

Irish Engineering Enterprises Federation – [www.ibec.ie/ieef](http://www.ibec.ie/ieef)  
Association for Consultancy and Engineering [www.acei.ie](http://www.acei.ie)  
Society of Manufacturing Engineers – [www.sme.org](http://www.sme.org)  
Pharmaceutical Ireland – [www.pharmaceuticalireland.ie](http://www.pharmaceuticalireland.ie)

For career opportunities in engineering in the UK see [www.targetjobs.co.uk](http://www.targetjobs.co.uk)

TARGET Engineering publication and TARGET JOBS magazines are available from the Careers & Counselling Service or download it from the website above.