

Your degree in Chemical & Biopharmaceutical Engineering... What Next?

Graduating with a Chemical & Process Engineering degree gives you a range of career opportunities. Now is the time to carefully research your options.

Chemical and process engineers design, develop and optimise the processes used in industrial operations – turning raw materials into useful products we use every day. Clothes, food, cosmetics and household products, pharmaceutical and medical treatment and diagnostic products, as well as waste water treatment, oil refinement/petrochemicals, metals, plastics, pesticides and fertilizers, depend on chemical engineers.

Chemical engineers also work on the processes used in distillation, fluidization, and combustion, as well as mineral processing, biotechnological, and environmental industries.

Core skills gained from an engineering degree include:

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

Q: Would you like to:

- *Go for a graduate job?*
- *Work in research?*
- *Do further study?*

EMPLOYMENT

Most jobs in the sector fall into two groups:

- Development of new or adapted substances and materials
- Design, manufacture, and operation of plants and machinery.

This is one of the fastest growing sectors in Ireland - Chemical Engineers and Analysts are among the most frequently cited professionals that are difficult to source. Nine of the top ten companies globally have research, manufacturing and services activities here:

- | | | |
|----------|------------|-------------|
| • Pfizer | • J&J | • Amgen |
| • Merck | • Novartis | • Eli Lilly |
| • GSK | • Roche | • BMS. |

Other employers include: Abbott, Alcan, BOC Gases, Bristol Myers Squibb, Coca Cola, Henkel, Irish Cement, Pepsi and Unilever.

See [a list of companies in Ireland](#)

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 to find out more.

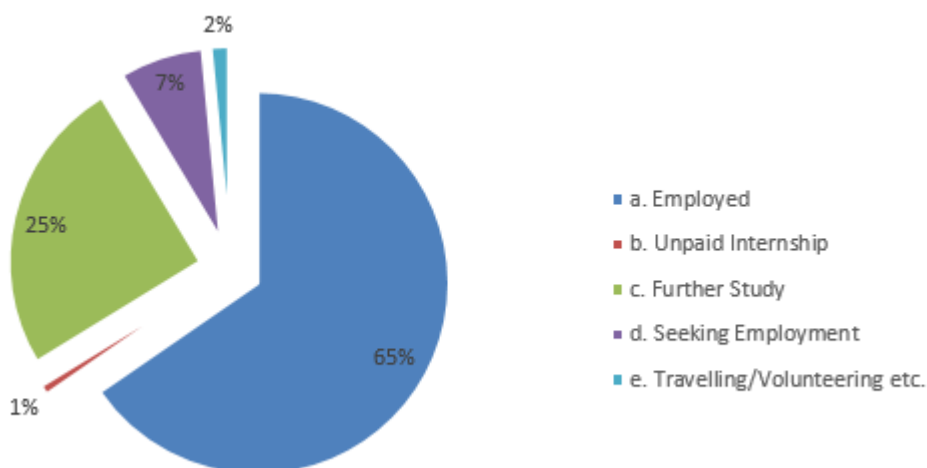
EI runs a programme for graduates in their first job. The graduate transition programme is called the Future Professionals Programme and is run with a number of employers. See [more](#).

RESEARCH

You may wish to work at investigating an aspect of engineering in research work. CIT has set up the Medical Engineering Design and Innovation Centre (MEDIC), as a research centre for biomedical devices.

EURAXESS – is a web portal for finding opportunities to work in research in Europe, including Ireland, and provides access to information and support services for European and non-European researchers. It offers access to the job market; assists researchers in advancing their careers in another European country and supports research organisations in their search for outstanding research talent. EURAXESS is supported by 40 participating countries across Europe.

WHAT ARE 2015 GRADUATES DOING?



Company	Job Role
Stryker	Additive Engineer
Somex	Manufacturing Engineer
Depuy Synthes Ireland	Manufacturing Engineer
Wyett Nutrition	Manufacturing Project Engineer
Pharmaco Engineering	Design Project Engineer
Boston Scientific	Manufacturing Engineer

FURTHER STUDY

Suitably qualified graduates are eligible to apply for a postgraduate degree programme at CIT:

- MEng in Chemical and Biopharmaceutical Engineering (taught)
- MEng (Research)
- PhD.

Information on post-graduate engineering courses throughout Ireland is available on [Qualifax](#).

IMPORTANT: Not all post-graduate courses are accredited by Engineers Ireland.

USEFUL CONTACTS

http://www.pharmachemicalireland.ie/Sectors/PCI/PCI.nsf/vPages/About_us~members-directory

Irish Medical Devices Association: www.ibec.ie/imda

[IDA Ireland](http://www.idaireland.com): www.idaireland.com