

What's Next?

Mechanical Engineering

Bachelor of Engineering (Honours)
in Mechanical Engineering

Mechanical Engineering is one of the oldest engineering disciplines. Mechanical Engineers design, build, install and maintain all kinds of mechanical machinery, tools and components.

Your skills are needed in a wide range of manufacturing environments/industries including: Automotive, Aerospace, Biotechnology including Pharmaceutical, Computers and Electronics, Microelectromechanical Systems (MEMS), Energy – conventional and renewable, Automation (robots in manufacturing), and Manufacturing.

You may be working on large or small-scale projects, and become involved in research and development, design or production. Whatever you specialise in, you'll be expected to progress projects from initial brief to completion.



Transferable Skills

Decision-making, time management & organisation

Problem solving & solution development

Working autonomously & as a member of a multidisciplinary team

Communication, leadership & supervisory skills

Spatial awareness & three-dimensional conceptual ability

Computer literacy

Ethics & Professionalism



Degree-specific Skills

Logical & mathematical reasoning

Research & analytical skills

Needs assessment, technical design & performance testing

Technical problem-solving

Application of mathematical & engineering theory using computer-based engineering tools (e.g. CAD, DesignWorks, SolidWorks, etc...)

Core Skills

Career Options



The Mechanical Engineer's 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.

Watch out for talks by relevant employers on campus during the year; check out the Jobs page on our website and follow us on social media for regular job alerts:

<http://www.mycit.ie/careers>

Employers

Graduates are well placed to apply for full-time, graduate/entry level jobs upon graduation. Jobs are mainly in design, installation, maintenance and project management where you will be expected to bring strong mechanical process knowledge and be responsible for the mechanical design packages/systems relevant to that industry.

Employers in Ireland include:

Bord Na Mona, DPS, ESB/Electric Ireland, Jones Engineering, Liebherr, PM Group, Intel, Siemens, L&M Keating, Dornan Engineering, BAM, ABEC, Irving Oil, Boston Scientific, and many more.





Where are CIT graduates working?

Company

ESI Technologies
 Protect Performance Plastics Limited
 Intel
 Apple
 Aviva
 Stryker
 Phillips 66
 MEP
 Wyett Nutrition
 PM Group
 BMD Ltd
 Pharmaco Engineering
 Tricel
 MSL Engineering
 Fleury Engineering

Job Role

Technical Support Engineer
 Junior Mechanical Design Engineer
 Technician
 Quality Engineer
 Back Office Advisor
 Advanced Manufacturing Engineer
 Mechanical Engineer
 Junior Mechanical Engineer
 Manufacturing Project Engineer
 Graduate Mechanical Engineer
 Junior Engineer
 Design Project Engineer
 Graduate Engineer
 Mechanical Engineer
 Project Engineer



Starting Your Job Search

Job searching takes focus, effort and commitment. It is essential that you create a strong online presence. You are advised to have a LinkedIn profile and work at building your network. If you blog or have a website, be sure to include links in LinkedIn and on your CV.

LinkedIn is about where you want to go, not just about what you are doing now. An ideal starting point is to look for Alumni (former graduates of your college/course). You should also look up companies/industries you want to target. Aim to find the name of the HR Manager and employees in roles you are aiming for yourself, and look back at their career journey. Follow people who are where you want to go! Make connections! Don't wait for jobs to be advertised, actively look for roles that interest you.

Graduate programmes are a great career starting point as extra training is provided. A Level 8 degree is the minimum for entry to most programmes. Register with Gradireland:
<https://gradireland.com/user>

Professional Groups & Associations



Membership of a professional association is a useful way to meet new people in your field and is a good addition to your CV. Many professional bodies have jobs boards and these roles may not be advertised elsewhere. Your BEng (Honours) degree from CIT is fully accredited by Engineers Ireland (EI) for Chartered Engineer eligibility, which means graduates can apply for membership. EI is the professional body in Ireland for engineers from all disciplines.

Relevant professional bodies include:

Engineers Ireland – www.engineersireland.ie
 Irish Engineering Enterprises Federation – www.ibec.ie/ieef
 Institute of Industrial Engineers – <http://www.iie.ie/>
 Association for Consultancy and Engineering – www.acei.ie
 Society of Manufacturing Engineers – www.sme.org



Postgraduate Study

Graduates with strong results in an honours degree may apply to undertake a taught postgraduate programme leading to the award of Master of Engineering or Master of Science for example or to a research programme leading to a PhD for example. Financial support may be available to suitably qualified candidates from Enterprise Ireland, industry sources or the CIT Postgraduate Award Scheme.

For further information, go to the 'Further Study Options' section on the Career Information page of <http://www.mycit.ie/careers>. You can also use www.qualifax.ie or www.gradireland.com/further-study to search for courses in areas of interest to you. For information on Masters' programmes through English in universities across the EU: www.mastersportal.eu



Going Abroad

For career opportunities in the UK see: www.targetjobs.co.uk; www.gradjobs.co.uk and www.graduate-jobs.com

Online postgrad fairs for Business, Law, Teaching and Engineering in UK are a useful way to link in with universities to discuss postgraduate options without the travel. Check out targetpostrad.com/online-fairs

Jobs across the EU can be seen on the EURES website and financial supports are available for relocating to another EU country, visit: <https://ec.europa.eu/eures/eures-searchengine/page/main?lang=en#/search>

If you wish to work in the USA, Canada or Australia, check out work visa requirements first. There are graduate work visas available to the USA, a great opportunity to gain global experience in your field.

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. <https://euraxess.ec.europa.eu>

Notes


