



# Career Opportunities

with a Degree in ...

## Mechanical Engineering

### Possible Career Opportunities / Specialisms

Mechanical Engineer	Manufacturing Engineer	Biomedical Engineer
Patent Work	Design Engineer	Systems Design
Quality Control Engineer	Research Engineer	Engineering Manager
Maintenance Engineer	Production Engineer	Process Engineer
Software Engineer	Hardware Engineer	Project Engineer

*Note: This list is a sample representation of positions available.*

### Your skills and the employment market

During your studies you have developed skills in many areas that are sought after by employers:

- Ability to work with technical terms
- Analytical thinking skills
- Communication skills
- Computer literacy
- Capacity for detail
- Creativity
- Numeracy
- Team work
- Project management
- Research skills

In general, Mechanical Engineers plan, research, design and develop, install, operate and maintain machinery. They conduct research to solve practical engineering problems and improve efficiency.

Graduate positions may consist of some or all of these elements. Many industries employ Mechanical Engineering graduates and value the skills gained during your course and include:

- Aerospace
- Automotive
- Transportation
- Computer and electronic manufacture
- Machine and plant design
- Medical Device Design and Manufacture
- Engine design
- Contracting and consultancy firms
- Universities
- Civil Service
- Local government

### Sample Job Advertisements

Some jobs advertised on Careers Connect that may suit students / graduates (these jobs are not currently available and are shown here for illustration purposes only):

Graduate Process Engineers, VistaMed. Development & maintenance of process & tooling. Ensuring measures are in place to monitor & support product quality. Engineering preferably in Mechanical or BioMedical.

Graduate Engineer, RPS. Good verbal / written communication and interpersonal skills. MS Word / Excel. Aptitude for problem solving. Ability to work within a team.

Ostomy Manufacturing graduate role, Hollister Ireland. Will involve Mechanical Design, Equipment modification, Corporate & Vendor Liaison, Production Services, Problem Solving.

In 2016 the European Patent Office is looking for 200 Engineers and Scientists to work as Patent Examiner. Job opportunities in a wide range of technical fields incl. Mechanical Engineering. Need language skills (English + at least one of German or French).

Fire Protection Engineer- Graduate role, Intel. Degree in Fire Safety Engineering or Bachelor Engineering Degree (chemical/mechanical advantageous).

Ornua Graduate Programme - includes Engineering (Process, Manufacturing, Mechanical). Three 6 month rotations. Exposure to multiple areas and teams within our business. Mentoring from our experienced leaders.

Graduate Management Development Programme, Kinspan. Engineering: Chemical, Process, Mechanical, Manufacturing, Structural, Energy Management / Systems

Graduate NPI Engineer, Cambus Medical. Degree in Mechanical / Manufacturing Engineering essential, preferably with a final year project/industrial placement within Medical Devices. Excellent communication skills-written and verbal, with a high level of commitment to the delivery of projects against agreed deadlines and targets.

Graduate Engineering Development Program, Molex. Work in a series roles within Quality, Design and Manufacturing, while also developing a range of skills and experience. Honors degree required, relatable experience is desirable.

Mechanical Engineering 12 Month Placement/Internship, GE. Opportunities within: Aerospace/Aviation, Oil & Gas, Power & Water, Energy Management.

## Further study opportunities

For certain career choices, employers may look for candidates with further qualifications and training.

Some of the courses chosen by Mechanical graduates in the past at NUI Galway were:

- Master of Engineering – Mechanical Engineering
- Structured PhD (Engineering)
- MSc Software Design & Development
- Master of Information Technology
- Masters of Applied Science (Enterprise Systems)
- Higher Diploma in Business Studies

See [www.nuigalway.ie/courses](http://www.nuigalway.ie/courses) for the full range of programmes available.

[www.nuigalway.ie/conversion](http://www.nuigalway.ie/conversion) covers conversion courses at NUI Galway. The website [www.postgradireland.com](http://www.postgradireland.com) contains useful information on postgraduate courses in Ireland, [www.prospects.ac.uk](http://www.prospects.ac.uk) is an excellent site for researching opportunities in the UK and <http://europa.eu.int/ploteus> covers the EU.

Read our FAQ on *Postgraduate Courses* for more.

## What past graduates have done

It is always interesting to know what fellow graduates have done after obtaining their degree at NUI Galway - taken from our annual Graduate Survey.

Mechanical Engineer with

Creganna  
DePuy  
Fort Wayne Metals  
Intel  
Ingersoll Rand TermoKing  
Kentz, Saudi Arabia  
Mitsubishi Heavy Ind., Japan  
MCS Kenny  
Siemens Energy  
Stryker

R&D Engineer with

Cameron International  
Medtronic  
Tyco

Project Engineer with

Boston Scientific  
CTL  
Technip (onshore/offshore)

Other:

Process Engineer, Proctor & Gamble  
Energy Conservation, Casey Technology

## Deciding on your Career

Choosing a career after university can be extremely difficult and any long-term decisions should not be made lightly. While some people have already planned a career even before arriving at university, others will have only a vague idea of what they intend to do, or perhaps even no idea at all.

Pick up our *Exploring your Options*, and *Researching Careers Information Online* FAQs and ask for details on completing an interest test.

## Resources in the Careers Information Room

Our Job Sector files contain a range of information about working in a specific sector – from job descriptions to professional associations. At the back of each (where possible) are advertised jobs so that you can look through requirements of previously advertised jobs.

We also have a range of titles to reference on taking psychometric tests, going for interview, writing a CV or personal statement... and much more.

Drop into our information room and we will be happy to assist you – there's no need to book an appointment to browse through our resources.

Be sure and pick up our free booklets 'Your CV' and 'Interview Skills'.

## Useful websites

We have found that the following websites contain relevant information on opportunities with a degree in Mechanical Engineering.

- [www.nuigalway.ie/careers](http://www.nuigalway.ie/careers)
- [www.nuigalway.ie/mecheng/](http://www.nuigalway.ie/mecheng/)
- [www.engineersireland.ie](http://www.engineersireland.ie)
- [www.gradireland.com](http://www.gradireland.com)
- [www.imda.ie](http://www.imda.ie)
- [www.prospects.ac.uk/options\\_mechanical\\_engineering.htm](http://www.prospects.ac.uk/options_mechanical_engineering.htm)
- [www.imeche.org](http://www.imeche.org)
- [www.gradcracker.com](http://www.gradcracker.com)
- [www.mechanicalengineer.com](http://www.mechanicalengineer.com)
- [www.engcen.com/](http://www.engcen.com/)
- [www.asme.org](http://www.asme.org)
- [www.graduatingengineer.com/](http://www.graduatingengineer.com/)
- [www.ieaust.org.au](http://www.ieaust.org.au)

There are many social media sites and groups helping people who are looking for work. Search LinkedIn, Twitter, Facebook to find people, companies and discussion groups to follow. Or use query sites such as [www.twitjobsearch.com](http://www.twitjobsearch.com), [www.google.ie/alerts](http://www.google.ie/alerts) to search for latest news items.

Read our *Using Social Media* FAQ and *Job Search* FAQ for more tips.