



# Careers in Engineering

## First Year Information Session



UCD Career Development Centre

[www.ucd.ie/careers](http://www.ucd.ie/careers)

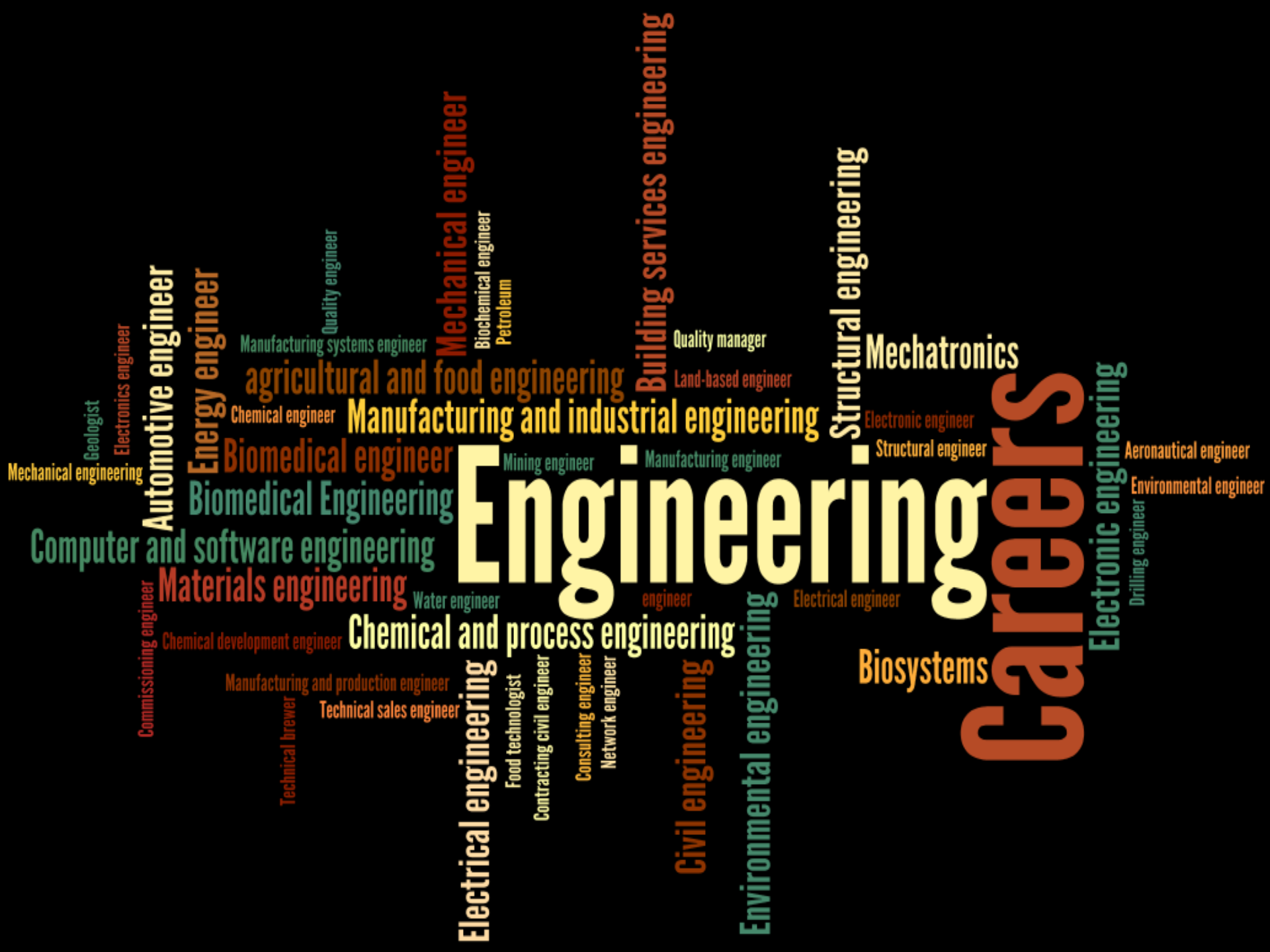
**Nicola Fortune**  
Career & Skills Consultant



# Overview

- Career Opportunities with Engineering
- Preparing for your Career
- Resources and Supports Available in UCD







# Career Opportunities for Engineering Students

- Many & varied roles as an Engineer
- Many graduate employers seek engineering graduates:
  - Management consulting
  - IT
  - Finance
  - Fire and Safety
  - Technical Sales /Marketing/Writing

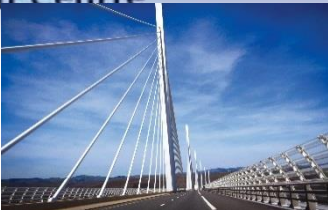




**Biomedical Engineering**



**Chemical & Bioprocess Engineering**



**Civil Engineering**



**Electrical/Electronic Engineering**



**Energy Systems Engineering**



**Mechanical Engineering**



Bristol-Myers Squibb



# Engineering – Transferable Skills





*ERNST & YOUNG*



**Deloitte.**



**accenture**



*High performance. Delivered.*

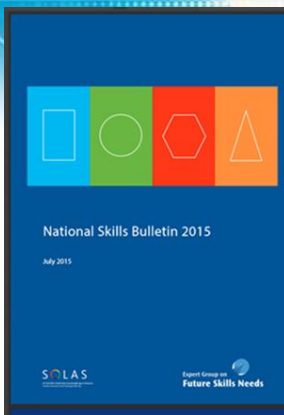


**pwc**



**Google™**





# National Skills Bulletin 2015

## Growth Sectors:

- Environmental Engineering
- Utilities
- Power
- Clean Technology

## Shortages:

- Production & Process Engineering, Process Automation & System Control, CAD, CAM, Production Planning & Supply Chain Management
- Product Development & Design Engineering
- Electrical Engineering
- Electronic Engineering
- Chemical Engineering for specialised roles in biotech/pharma industry







# Employer Feedback

Relevant Degree

Relevant Experience

Academic Results

## Employability Skills

- Teamwork & Communication Skills
- Positive Attitude
- Business and Customer Awareness
- Self-Management Skills
- A Foreign Language/Driving Licence





# Preparing for your Career





Decide what to do

Take Action

Explore Opportunities

Know Yourself



## Know Yourself



Psychometric tests e.g.

Profiling for Success

[www.ucd.ie/careers](http://www.ucd.ie/careers)

GradIreland Careers Report

[www.gradireland.com](http://www.gradireland.com)



## Explore Opportunities



Do some research:

[www.prospects.ac.uk](http://www.prospects.ac.uk)

[www.gradireland.com](http://www.gradireland.com)

<http://targetjobs.co.uk/>

<http://www.gradcracker.com/>

<http://www.careerplayer.com/>

<http://icould.com/>

Speak to a Career and Skills  
Consultant!





UCD  
WWW.UC

Industry sectors

- Automotive engineering: industry sector overview
- Fast moving consumer goods: industry sector overview
- Chemical engineering: industry sector overview
- Food manufacturing: industry sector overview
- Construction engineering: industry sector overview
- Manufacturing engineering: industry sector overview
- Control engineering: industry sector overview
- Marine engineering: industry sector overview
- Defence technology: industry sector overview
- Materials and metals: industry sector overview
- Electronic engineering: industry sector overview
- Pharmaceuticals: industry sector overview
- Energy (oil and gas): industry sector overview
- Rail engineering: industry sector overview
- Energy (power generation): industry sector overview
- Research and development (R&D): industry sector overview
- Engineering careers in retail: industry sector overview
- Telecommunications engineering: industry sector overview
- Engineering consultancy: industry sector overview

\*Hilites: industry sector overview



You are in: Home page > Jobs and work experience > Industry insights > Engineering - Job roles

Engineering  
Job roles

The following profiles are examples of key jobs that exist in the engineering sector. To find the job roles that best match your skills and interests, see [what jobs would suit me?](#)

- Aeronautical engineer
- Automotive engineer
- Biomedical engineer
- Chemical engineer
- Communications engineer
- Consulting civil engineer
- Electrical engineer
- Electronics engineer
- Materials engineer
- Mechanical engineer

For even more career ideas, take a look at [types of jobs](#).

Tweet Like

More in this section

- ▢ Overview
- ▢ Job roles
- ▢ Entry and progression
- ▢ Typical employers
- ▢ Opportunities abroad
- ▢ Future trends
- ▢ Jargon buster
- ▢ Contacts and resources

Print all pages in this section

Case studies

- ▢ Graduate systems engineer, Ailena McConnell
- ▢ Sales engineer, Collette MacNeill
- ▢ Graduate engineer, Emily Meachan

<https://targetjobs.co.uk/>

[www.prospects.ac.uk](http://www.prospects.ac.uk)

Decide what to do



Job descriptions

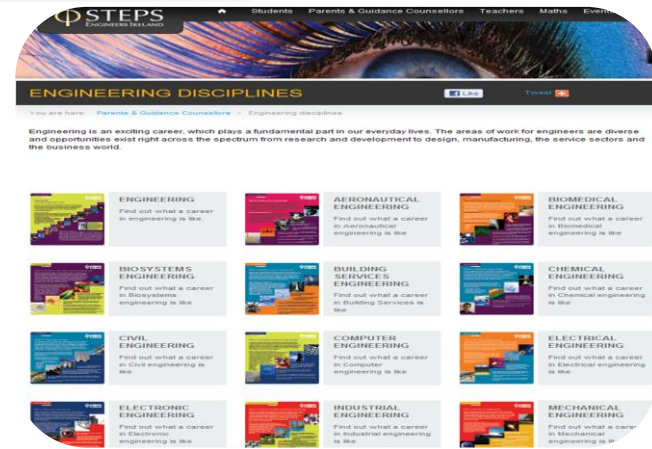
- Aeronautical engineer
- Automotive engineer
- Biomedical engineer
- Chemical development engineer
- Commissioning engineer
- Consulting engineer
- Control engineer
- Electrical engineer
- Electronic engineer
- Energy engineer
- Engineer, manufacturing and production
- Engineer, quality
- Environmental engineer
- Material engineering
- Mechanical engineer

Areas of work

- Chemical and pharmaceutical
- Electronics
- Engineering research
- ICT and telecommunications
- Industrial manufacturing and industry
- Utilities

Graduate views

- Andrew O'Keefe, Design Engineer, CréVivo
- Clarian Gormley, Software Engineer, NYSE Euronext
- David Dealy, Structural engineer, AWP
- Gillian Technical Team, Consultant, B&W



Engineering is an exciting career, which plays a fundamental part in our everyday lives. The areas of work for engineers are diverse and opportunities exist right across the spectrum from research and development to design, manufacturing, the service sectors and the business world.

<b>ENGINEERING</b> Find out what a career in engineering is like.	<b>AERONAUTICAL ENGINEERING</b> Find out what a career in aeronautical engineering is like.	<b>BIOMEDICAL ENGINEERING</b> Find out what a career in Biomedical engineering is like.
<b>BIO SYSTEMS ENGINEERING</b> Find out what a career in Biosystems engineering is like.	<b>BUILDINGS SERVICES ENGINEERING</b> Find out what a career in Building Services is like.	<b>CHEMICAL ENGINEERING</b> Find out what a career in Chemical engineering is like.
<b>CIVIL ENGINEERING</b> Find out what a career in Civil engineering is like.	<b>COMPUTER ENGINEERING</b> Find out what a career in Computer engineering is like.	<b>ELECTRICAL ENGINEERING</b> Find out what a career in Electrical engineering is like.
<b>ELECTRONIC ENGINEERING</b> Find out what a career in Electronic engineering is like.	<b>INDUSTRIAL ENGINEERING</b> Find out what a career in Industrial engineering is like.	<b>MECHANICAL ENGINEERING</b> Find out what a career in Mechanical engineering is like.

<https://gradireland.com/career-sectors/engineering>

<http://www.steps.ie/>



facebook.com/ucdcareers



@ucdcareers



The professional body for engineers and engineering in Ireland

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**ENGINEERING OUR FUTURE**  
**EngineersWeek 10**  
28 Feb - 5 Mar 2016

**Get involved in ENGINEERING OUR FUTURE**

[engineersweek.ie](http://engineersweek.ie)  
[#engweek16](https://twitter.com/engweek16)

**ENGINEERING OUR FUTURE**  
**EngineersWeek 10**  
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[engineersweek.ie](http://engineersweek.ie) #engweek16

What's New

# Engineers Week 2016

Engineers Week 2016

28th February - 5th March

Inspire the next generation of engineers!

**GET INVOLVED**

### MEMBER LOGIN

Members can login for access to exclusive content, event booking, shop discounts and more...

Your Membership Number

.....

Remember Me

**LOGIN**

- Forgot your password?
- Haven't registered yet?

### Subscription Renewal

**RENEW YOUR MEMBERSHIP**

EVENTS CPD CALENDAR ALL EVENTS

LATEST NEWS

RSS FEED

**Great Northern Distillery Site Visit**  
Friday 26 February 2016  
Great Northern Distillery, Carrick Road, Dundalk, Co. Louth

**DPS Awarded Engineers Ireland CPD Accredited Employer Standard**  
18 February 2016

**ATHLONE: Project Supervisor Design Process (PSDP)** CPD  
Wednesday 9 March 2016  
Radisson Blu Athlone, Northgate Street, Westmeath, Ireland

**Call for Papers - 19th ICSMGSE Seoul September 2017**  
5 February 2016

MORE EVENTS

### Tweets

**TOG** @TOG\_Dublin 17h  
Thanks @EngineerIreland for all the swag today, #engweek16  
<https://twitter.com/x7QR4fqjP>  
retweeted by Engineers Ireland



Expand

**Julie Goggins** 12h

Note: If you want to be a chartered engineer (CEng), make sure that the company you are applying to runs a graduate programme accredited with [Engineers Ireland](http://www.engineersireland.ie) or [The Institution of Engineering and Technology](http://www.theiet.org).

# Would you like this Occupation?

- The job pays nearly 50,000 a year, has good. benefits and excellent health insurance.
- You work around a lot of people.
- You work in rich surroundings.
- You meet many famous people.
- You work night shifts, sometimes rotating shifts.
- You do a lot of standing.
- You work under a lot of pressure.
- You are watched constantly. Your boss is checking on you.
- Some would consider the job immoral.



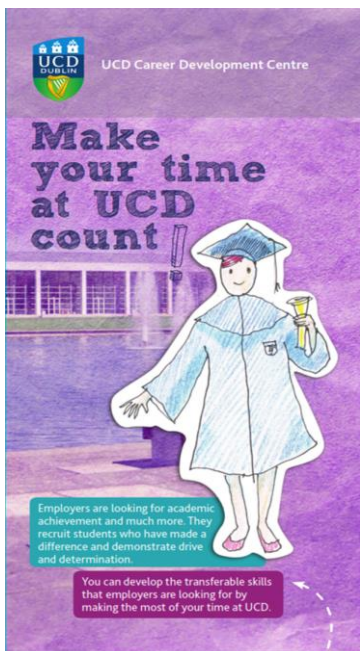




# Take Action

## Make a Plan!

### How will you stand out from the crowd?



# The 'perfect' applicant

Work  
experience

Academic  
achievement

Understands  
the  
role/company  
/sector

Transferable  
skills

Engaged with  
their  
community



1st & 2nd

Year



Regions  
Divisions  
Societies  
Students / Graduates  
Become a student member  
What we can do for you  
Developing your career  
Resources  
Events  
Innovative Student Engineer



Student members can join the Student and Graduate group and gain access to a host of services, information and resources to help you on your way.

MEMBER LOGIN

Members can login for access to exclusive content, event booking, shop discounts and more...

Your Membership Number  
\*\*\*\*\*  
 Remember Me

[Forgot your password?](#)  
[Haven't registered yet?](#)

Tweets   
JBA Consulting @JBAConsulting 20h



Pre-final  
Year



Final  
Year







# Resources and Supports Available in UCD





# What Does UCD Offer?



Extensive range of clubs and societies, volunteering and international opportunities

4 Annual Recruitment Fairs involving 160+ graduate employers

118 Employer recruitment presentations on campus

Employer Led Skills For Working Life Programme

Alumni Career Mentoring

Academic Internships





# The UCD Career Development Centre

The screenshot shows the UCD Career Development Centre website. At the top, there is a navigation bar with links for Home, About us, Getting started, Services, Events, and Career Focus. Below this is a search bar. The main content area features a 'Your Roadmap to Success' infographic with stages: ENGAGE, INTERNSHIPS, CAREER COACHING, CAREER WORKSHOPS, and GRADUATE STUDY/GRADUATE JOBS. A sidebar on the left lists user roles: Students, Alumni, Employers, UCD Staff, and Contact us. The main content area also includes a 'UPCOMING EVENTS' section with details for various events like 'An Introduction to Assessment Centres' and 'Supply Chain Management Recruitment Fair'. A 'Login to Careers Connect' pop-up window is visible, providing instructions for students, alumni, and employers.





# The UCD Career Development Centre Online



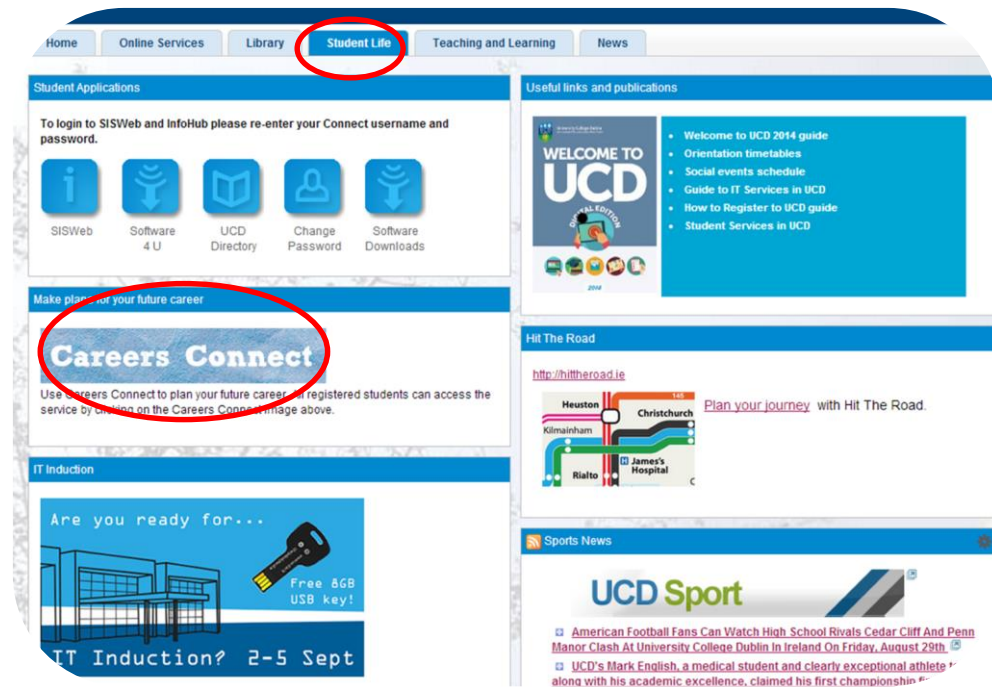
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http://www.ucd.ie/careers



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## UCD Careers Connect



