Find Your Inspiration

Energy & Engineering

About The Industry

These industries help our country run and function! They are considered to be one of largest contributors to Scotland's economy. They are considered desirable industries due to their varied nature and fantastic career progression opportunities.

Renewable energy sources are now of rising importance in Scotland, while gas, oil and nuclear sectors remain vital areas of employment.

Engineers design, test and develop new ideas, products and processes. Sectors include space, aviation, transport, medicine, technology, food and fashion... just to name a few!

Entry into these industries is flexible from apprenticeships to university qualifications.

The Stats!

- The engineering industry employs around 120,000 people in Scotland
- There is a drive to get more girls into this field... 22% of engineers are women!
- Over the next 2 years Scotland will need an extra 182,000 engineers
- The energy sector employs 125,000 people.
- By 2023 it will need 15,000 new recruits

Possible Careers

Chemical engineer

Welder

Civil Engineer

CAD Technician

Scaffolder

Building Surveyor

Plumber

Gas service technician

Design Engineer

Land Surveyor

JOBS

Manufacturing Systems Engineer

Career Insight: Design Engineer

<u>Average Salary</u>: £44, 720
<u>No. Employed</u>: 4,200
This job requires you to research and create new ideas/products or look at ways to improve the efficiency or existing products/systems. You would use your knowledge of design principals, materials and manufacturing to create these products.
<u>You would be expected to</u>:
- Research varies ideas/options
- Create technical plans and prototypes
- Use CAD and CAE software
- Test your designs

Career Insight: Aerospace Engineer

<u>Average Salary</u>: £49, 400
<u>No. Employed</u>: 7,200
This job requires you to design and build aeroplanes, helicopters, spacecraft, satellites, missiles and rockets. You would be designing and maintaining aircrafts and their parts in order to make these efficient and safe for people to use. You may focus on research and development.
<u>You would be expected to</u>:
- Research ways to make aircrafts more efficient
- Use CAD
- Carry out ground and flight testing programmes
- Sign off projects in line with regs

Some Opportunities!

- <u>BAE Systems-</u> have around 90 apprenticeship vacancies available. The application window is open until the 28th Feb! There are many opportunities from engineering to IT and HR.
- <u>Civil Engineer Graduate Apprenticeship-</u> Amey have teamed up with Strathclyde University to offer this Apprenticeship which will see you finish with BEng (Hons) Degree and have a starting salary of £19,344 a year!
- <u>JP Morgan Technology Graduate Apprenticeship-</u> you will learn how to analyze, develop and test code, while working towards an Honours Degree in Software Development.
- BT Field Support Technician Apprenticeship- work on site with customers with a starting salary of £16,422

Useful Websites!

- *My World of Work Job Profiles-* https://www.myworldofwork.co.uk/my-career-options/engineering
- *Apprenticeships-* https://www.apprenticeships.scot/find-a-vacancy/?keywords=engineering&location=glasgow&distance=15&type=&jobCategory=&qualification=&sortType=relevance&page=1