

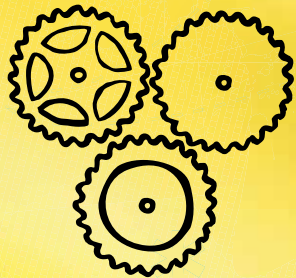
# ENGINEERING SECTOR

Engineering makes up a **fifth** of the UK economy!

**21%\***

of workers in this sector are female

You could end up doing anything, from shaving a millionth of a second off lap times in Formula One to putting communications satellites in orbit



After an Engineering Apprenticeship you could be earning **£20,000** a year!

**108,200**

Workers in the aerospace industry in the UK

**52%**

of employees in the sector are in managerial and professional roles

**£17,000 - £43,000**  
(salary range for Mechanical Engineers)

**136,000** workers with level 3 qualifications are needed in the sector



## ENGINEERING

## Careers Insight

From making aeroplanes fly to maintaining sophisticated machinery, engineers are behind the greatest achievements of mankind. Get into engineering and you'll be on one of the most exciting career paths out there!

**Chemical:** The processing of raw materials into fuels, chemicals, plastics and pharmaceuticals.

**Mechanical:** Designing motors, machinery and other engines. Mechanical engineers can work on small component parts or even extremely large machinery or vehicles.

**Metals:** The fabrication and welding of metals. Metal engineering is important to recycling too.

**Electrical:** Designing and making electrical systems and components. This can range from small parts to managing an entire electrical network or grid.

**Aerospace:** Designing and maintaining aircraft, missiles, weapon systems, satellites and space vehicles, as well as their individual components.

**Marine:** Designing ships, boats and other watercraft. Marine engineers may also work on offshore oil platforms and supply vessels.

**Defence:** Designing and maintaining aircraft, navigation systems, rockets, satellites etc. for the Ministry of Defence.

### Salaries

Currently, many skilled people in the engineering industry earn over £400 per week – that's over £20,000 per year.

### GET QUALIFIED

To get into engineering, you'll need hands-on experience and a good head for maths and science...

#### Apprenticeships

Apprenticeships are a great way into this sector; all of these are NVQ level 2:

- Engineering
- Engineering Construction
- Heating, Ventilating, Air Conditioning & Refrigeration
- Industrial Applications
- Marine Industry

#### Advanced Apprenticeships

You can also do an Advanced Apprenticeship; all of these are NVQ level 3:

- Engineering
- Engineering Construction
- Heating, Ventilating, Air Conditioning & Refrigeration
- Marine Industry

You can also do a Higher Apprenticeship, NVQ level 4 in:

- Engineering Technology

#### A Levels

Here are some A Levels, which are relevant to the Engineering sector:

- Design & Technology
- Maths
- Marine Science
- Sciences

#### Foundation Degrees

A Foundation Degree is a university-level qualification that is equivalent to the first two years of an Honours Degree. They are different from Honours Degrees as they involve learning in the workplace as well as at university or college.

#### College Courses

A college course can also be a great route into this sector. To see which colleges have relevant courses in your region check out [www.opendoorsmedia.co.uk](http://www.opendoorsmedia.co.uk).

### USEFUL LINKS

[www.opendoorsmedia.co.uk](http://www.opendoorsmedia.co.uk) - The best careers site on the web.

[www.semta.org.uk](http://www.semta.org.uk) - Sector Skills Council for science, engineering and manufacturing.

[www.careersbox.co.uk](http://www.careersbox.co.uk) - Home to a fantastic library of free careers videos.