



Engineering

2% of employment in the Humber is in Engineering

Engineering is the application of scientific, social, and practical knowledge in order to invent, design, build, maintain, research, and improve structures, machines, devices, systems, materials, and processes.

The discipline of engineering is extremely broad, and encompasses a range of more specialised fields of engineering, each with a more specific emphasis on particular areas of applied science, technology and types of application.

Will there be opportunities available?

■ The Engineering sector is growing. With new industries and technologies emerging and 203,000 people with Level 3+ engineering skills are needed every year to meet demand, the region offers many interesting opportunities at all levels.

■ Up to 59,000 engineering graduates and technicians are required every year nationally to fill core engineering roles, a demand which is not currently being met.

■ Over the next five years it is expected that 186,000 more people with engineering skills will be needed by companies nationally.

Did You Know?

■ The average graduate starting salary for engineering is £27,079 – over a fifth more than for all graduates.

■ Nationally 12% of the Engineering workforce is female and this is increasing year on year.

■ Women are encouraged to enter this rapidly changing and varied sector.

■ Engineering is no longer a traditional heavy industry. Creativity and problem-solving abilities, along with a knowledge of tech to design new products are now key skills.

■ Engineers work in many different industries including chemicals, food manufacturing, technology and the motor and aerospace industries. More qualified and skilled people are needed to forge a bright future for Engineering, which will in turn bring work to other sectors and boost the economy of the country as a whole.

Good to Know: A lot of newer and really exciting engineering jobs that offer a good salary package need a science, technology, engineering and maths base.

With skills in demand from entry level to postgraduate, Engineering offers a wide range of opportunities. Routes into the sector include apprenticeships, BTEC certification and academic qualifications up to doctorate level. From CAD Technicians, Electricians, Gas Service Technicians and Welders to Civil Engineers and Project Directors, careers in Engineering welcome both academic and hands-on practical talent.

Types of Job	National Average Salary
Robotics Engineer	£27,500 to £55,500
Maintenance Fitter	£16,000 to £35,000
Mechanical Engineer	£22,000 to £55,000
Design Engineer	£20,000 to £55,000
CAD Technician	£15,000 to £35,000
Electronics Engineering Technician	£18,000 to £35,000
CNC Machinist	£18,000 to £35,000

Skills/qualities

- Problem solving
- Attention to detail
- Communication
- Accuracy
- Creative thinking
- Interest in how things work

Useful subjects include

- Design and Technology
- Maths
- IT
- Science
- Engineering

Some local employers

BAE Systems
Point
British Steel
Kingston Engineering
GWF Engineering
Britcon
APT
Alliedprotek

Sources: Annual Survey of Hours and Earnings, ONS 2015
Business Register Employment Survey, NOMIS 2016 (2014 figures).

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