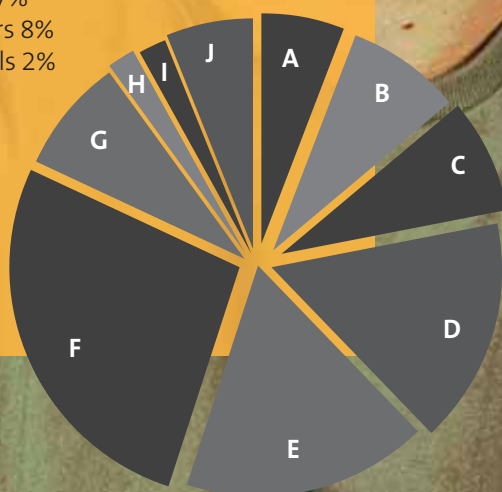


Engineering

Engineers and scientists are crucial to the performance and competitiveness of our country. Engineers can contribute to positive changes in our environment and society by finding solutions to problems such as pollution and transportation. Or they can influence the economy and industry by improving existing products as well as developing new ones.

WHO DOES WHAT?

- A Admin/Clerical 6%
- B Craftspersons 8%
- C Fitters 8%
- D Managers 16%
- E Operators/Assemblers 17%
- F Other Occupations 27%
- G Professional Engineers 8%
- H Software Professionals 2%
- I Stores 2%
- J Technicians 6%



Source: Labour Force Survey 2007
© Crown Copyright.
Figures are for England.

WHAT'S HAPPENING?

- > Engineers work in health, entertainment, transport, construction, robotics, conservation, design, communications, disaster relief, in fact pretty much everywhere. The engineering industry employs over 1.6 million people.
- > Locally, 32,800 are employed in engineering and manufacturing.
- > Employees in all science, engineering and technology occupations require a high level of numeracy due to the technical and mathematical basis of the jobs in the sector.
- > Apprenticeships can be a good route into a skilled trade. They can offer a more vocational route into work and gaining qualifications.

WHAT WE THINK WILL HAPPEN

- > The impact of technological change will increase the demand for professional and technical skills. The demand for graduates with science, technology, engineering and maths (STEM) skills is likely to increase faster even than the overall increase in demand for graduates.
- > There will be a greater need for more flexible, 'multi-skilled' workers, who have both electrical and mechanical engineering skills.
- > While the immediate future is uncertain due to the current economic downturn it is likely that skill shortages will remain across most engineering occupations.
- > New qualifications, called Diplomas, are being introduced. These will help people prepare for university, college or work. There will be Diploma in Engineering. Look out to see whether it's on offer in your area.

NUMBERS EMPLOYED LOCALLY

> B&NES	3,578
> Bristol	8,086
> North Somerset	5,090
> South Gloucestershire	16,047

Source: Annual Business Inquiry Employee Analysis. ONS Crown Copyright. (From Nomis 2009)

SOME JOB SUGGESTIONS

- > Chartered/Incorporated Engineer
- > Chemical Engineer
- > Engineering Craftsperson
- > Engineering Operator
- > Fabricator
- > Fitter
- > Sheet Metal Worker
- > Technician

IS THIS YOU?

- > Always pay attention to detail
- > Good at communicating ideas and theories
- > Interested in craft, design and technology

HOW MUCH COULD I EARN? Average annual salary (£s)*

> Assembler/Routine Operator	£19,822
> Mechanical Engineer	£38,426
> Plant and Machine Operator	£23,900
> Production Manager	£46,561
> Quality Assurance Technicians	£24,668
> Telecom Engineer	£27,134

WHAT 16 YEAR OLDS DID IN 2008

In 2008 83.7% of 16 year olds in the West of England continued in full-time education, while a further 10.2% entered full-time employment or work-based training.

A total of 1,182 Year 11 school leavers from local schools entered full-time employment or work-based training. Of this number, 103 went into engineering and manufacturing related work.

Source: Connexions West of England 2009.

WANT TO KNOW MORE?

If you're serious about a career in engineering – FIND OUT MORE!

- > Use Careerscape, JED, Kudos and the engineering sections of your Connexions resource area for more information including:
 - > Qualifications
 - > Local training, further and higher education opportunities
 - > Skills and personal characteristics
 - > Rates of pay and working conditions
 - > Local, national and international employers.

WEBSITES

- > Apprenticeships: www.apprenticeships.org.uk or call the helpline on 08000 150 600
- > Engineering Construction Industry Training Board: www.ecitb.org.uk
- > Engineering Diploma: www.engineeringdiploma.com
- > Enginuity: www.enginuity.org.uk
- > SCENTA: Science, Engineering and Technology: www.scenta.co.uk
- > SEMTA: Sector Skills Council for Science, Engineering and Manufacturing Technologies: www.semta.org.uk
- > Society of Women Engineers: www.swe.org.uk

*Salary rates have been calculated using the average gross pay rates for full-time workers. Figures are for the United Kingdom. Averages can hide higher earnings. With training and career development, higher salaries can be achieved. Source: Annual Survey of Hours and Earnings 2008, O.N.S., © Crown Copyright.



Notes

A large rectangular area with a light beige background and horizontal dotted lines, intended for taking notes.



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