



“Carbon60 operates almost exclusively in the STEM related careers market so we see the immediate impact of not having enough talented people to fill vacancies; and the effect it has on the companies we work with. Any increased investment into STEM fields is always extremely welcome news.”

Alex Downard, Operations Director

Engineering overview & outlook

Summer 2017



Engineering overview



£486 billion was contributed by the engineering industry to UK GDP in 2015 which is **26%** of the UK's total GDP, a **2.3%** growth since 2014.

The UK has an engineering skills crisis which is exacerbated by the lack of women in the industry. The latest figures from the Labour Force Survey said that women only make up **14.4%** of all people working in STEM occupations.

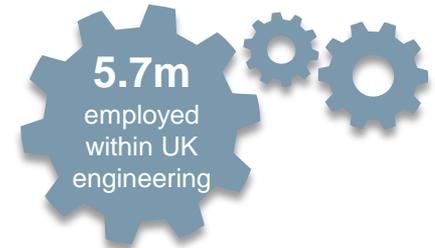
40% think advertised roles reinforce gender stereotypes. Engineering is still mistakenly considered 'masculine work' by some.

74% of recruiters and **three in five** 16-18 year olds say engineering is perceived as a career for men.

50% of current engineers feel engineering doesn't represent women adequately.

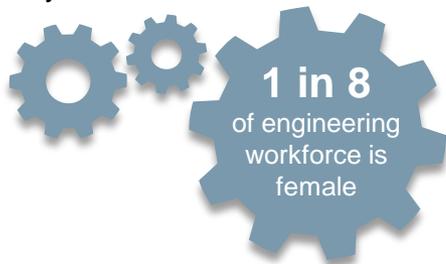
76% of engineers say they would recommend an engineering career path to school leavers.

The top 5 countries that UK employers recruit engineering talent from are:
Poland – 38%
France – 37%
Germany – 33%
Italy – 26%
India – 21%



Top 10 most appealing careers to 16-18 year olds

1	App/web Developer
2	Product Designer
3	Engineer
4	Entertainer
5	Lawyer
6	Doctor
7	Teacher
8	Journalist
9	Emergency Services
10	Pilot



Engineering outlook



In 2017, Engineering is topping the list for job growth opportunity with **78,467** engineering roles advertised online in any given month and the average salary is **£36,177**.

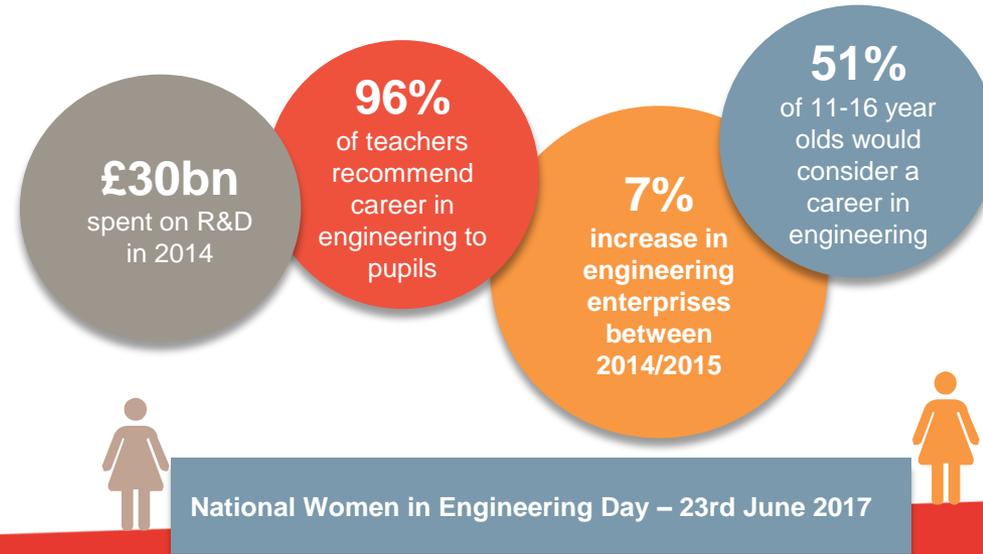
The skills shortage is a big concern, especially in engineering, partly due to the ageing 'baby boomer' workforce. According to recent figures from the *Royal Academy of Engineering*, there is a shortfall of **1.8 million engineers** across the UK. *Engineering UK* suggests that **182,000** additional workers are needed every year until 2022 to fill the number of engineering roles that will become available.

There are over **14,000** job vacancies within the UK engineering industry, with mechanical and civil engineering being two of the most in-demand skillsets in the UK.

23% of employees have concerns about automation affecting their jobs. **18%** worry that only part of their job will be affected while **5%** worry that their whole job will become automated in the future.

2017 will see a boom in automotive engineering due to it going digital; the AI field has a vision set on driverless cars, more electric cars and batteries, with intentions to scale investments and create thousands of jobs.

Sir James Dyson is investing **£15 million** over the next five years into the Dyson Institute of Technology, aspiring to double his engineering workforce by **6,000** by 2020.





Carbon60 is a specialist in providing flexible and cost effective engineering and technical people solutions on an international scale. We work in partnership through a combination of recruitment, managed services and outsourced projects to help connect the best industry professionals and teams to dynamic businesses across aviation, construction, engineering and technology.

