



EngineeringUK
INSPIRING FUTURES TOGETHER

ENGINEERING AND TECHNOLOGY ARE OF VITAL IMPORTANCE TO THE UK

Engineering is a critical industry and employs **6.2 million people in UK** (=19% of all jobs)

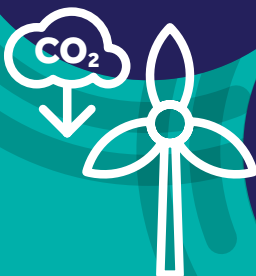
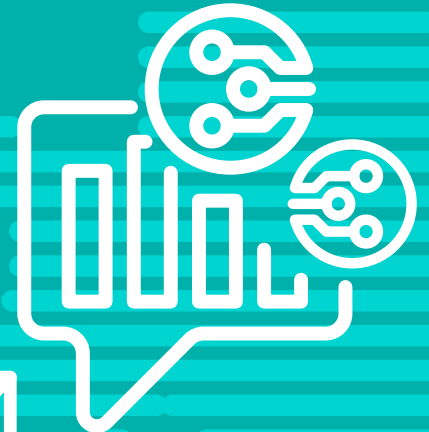
Engineering and technology jobs predicted to grow in all UK regions between now and 2030 **faster than other occupations**

Net zero ambitions and growth of green jobs increasing demand further in the last 5 years:

+55%
Job adverts for 'green engineering jobs'

+48%
Job adverts mentioning 'green skills'

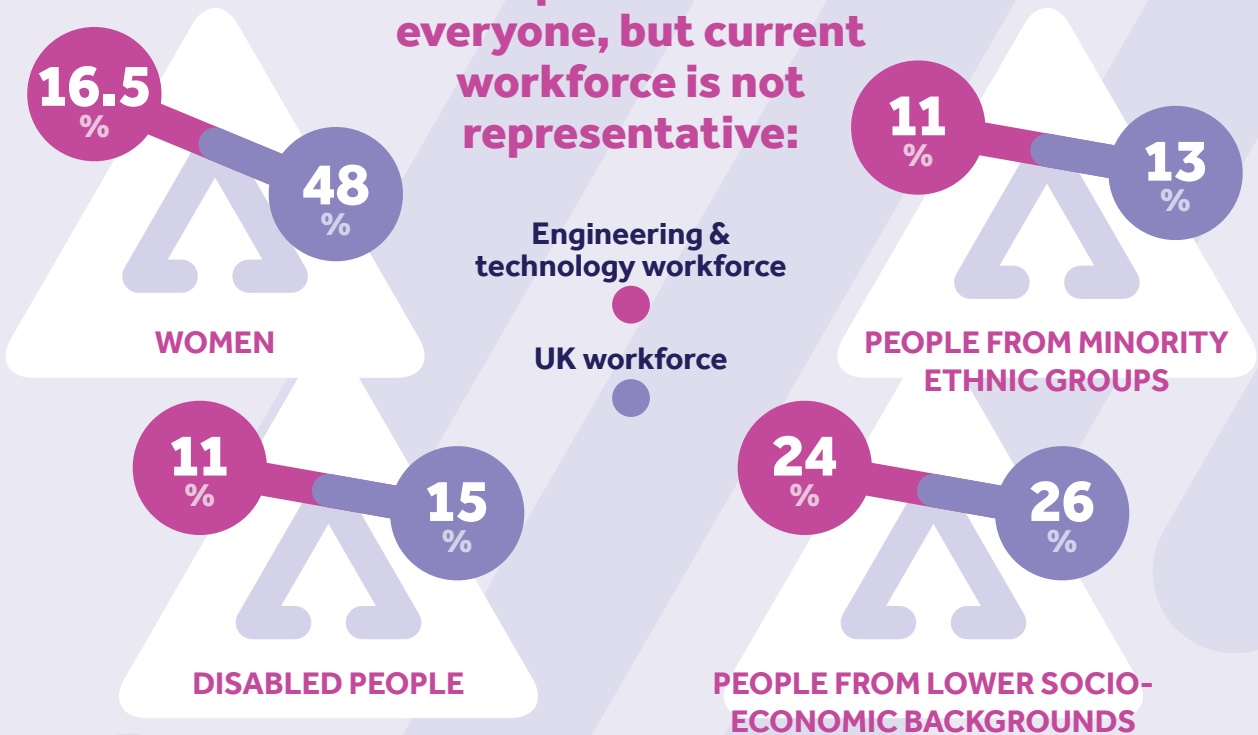
AROUND 500k
new jobs needed to support the green economy by 2050



But we have significant skills shortages and workforce challenges

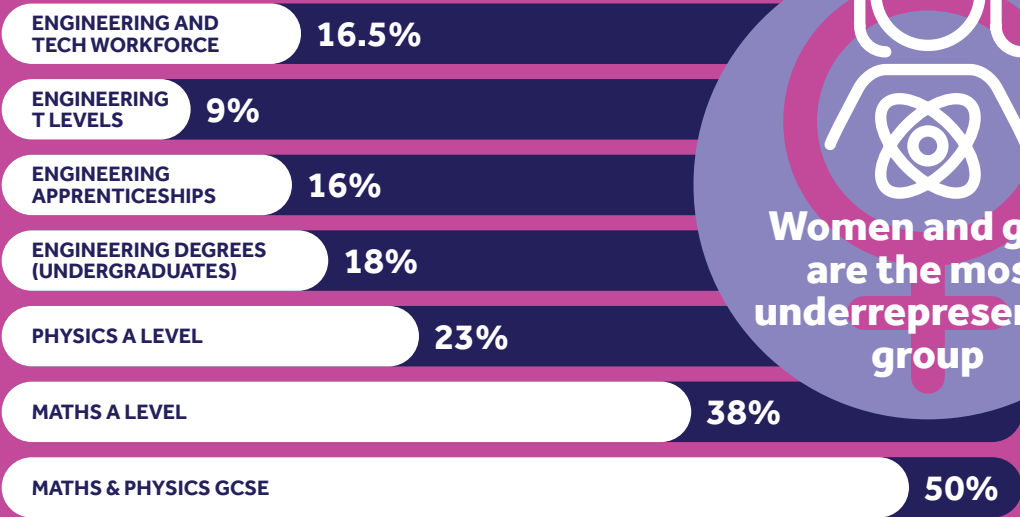
1 in 5 jobs
in the UK are in engineering (19%), yet engineering vacancies account for 1 in 4 of all job adverts in UK (25%)

Diversity in the workplace benefits everyone, but current workforce is not representative:



SPOTLIGHT ON GENDER GAP

% OF WOMEN / GIRLS

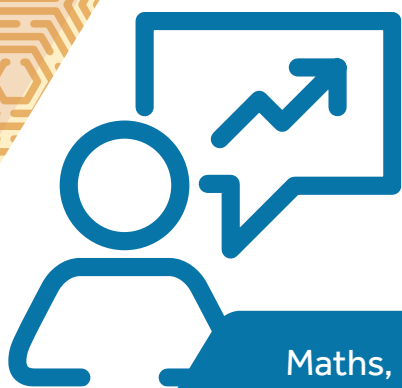
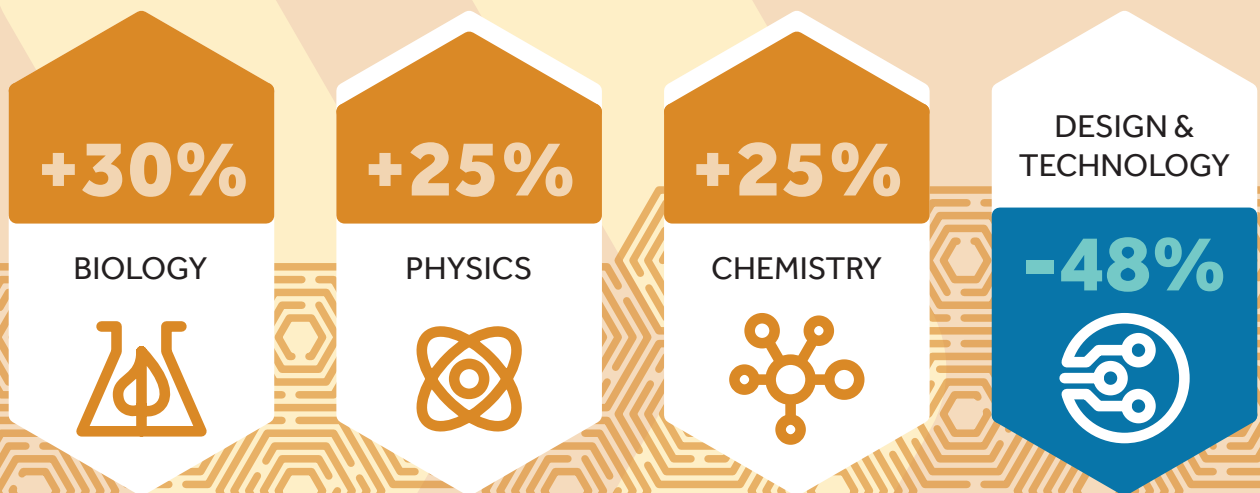


Women and girls are the most underrepresented group

We need to attract more young people from all backgrounds to create the diverse workforce needed for engineering and technology to thrive

STEM subjects are popular in schools, but engineering barely features on the curriculum and take up of design & technology has declined

GCSE uptake over the past 5 years:



Maths, biology, chemistry, physics remain in **top 10 most popular A levels**

Girls make up half of those taking GCSE maths and physics, **but this drops at A level: 38% maths, 23% physics**

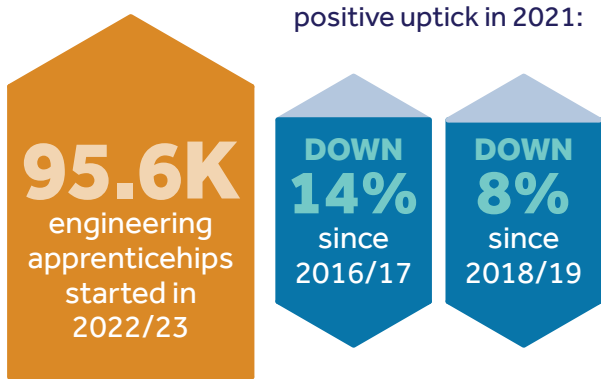
There is also a shortage of STEM teachers in schools, particularly in deprived areas



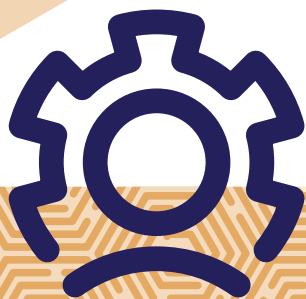
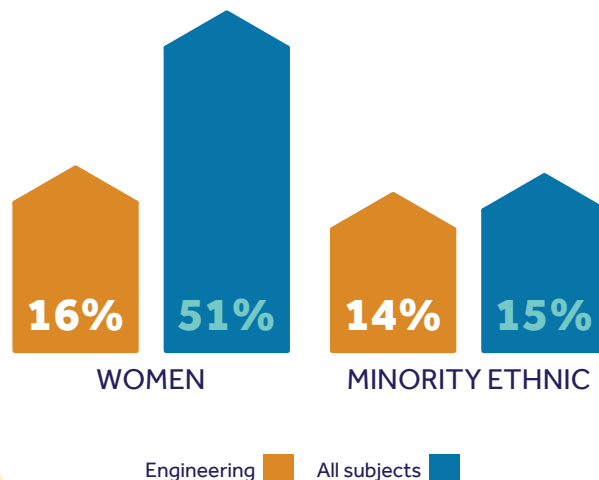
Increasing awareness of the varied routes into engineering and technology

APPRENTICESHIPS

Not yet reached pre-pandemic levels, despite positive uptick in 2021:



Representation in apprenticeships:



HIGHER EDUCATION

38,615 engineering and tech undergraduates

5th most popular subject in UK 6% of all undergraduate entries



T LEVELS

Estimated shortfall of **43,500** industry placements

ONLY 37% of young people know what T Levels are

ONLY 28% of employers know what T Levels are and understand what they involve



Outreach helps to drive change by informing and inspiring more young people to consider progressing into engineering and technology

Knowledge and perceptions among school students

55%
say they know what engineers do
– 64% for tech

51%
say they were interested in an engineering career
– 59% for tech

60%
say they do not know what subjects / qualifications they need to become an engineer



Those who make the link between engineering roles and environmental sustainability are **7 times** more likely to be interested in engineering careers

STEM engagement activities improve young people's understanding of engineering careers and interest in them

Only 12% of young people attended a careers event with an employer in past 12 months, but those who did were:

TWICE
as likely to know what engineers and scientists do at work

ALMOST 3 TIMES
as likely to be interested in an engineering career

School students who attended one or more STEM careers activity are:

x3.5 TIMES
more likely to know what people working in engineering do

x3.4 TIMES
more likely to consider a career in engineering



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