

Engineering and technology are of vital importance to the UK

Engineering is a critical industry and employs 6.3 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:



Job adverts for 'green engineering jobs'

+550

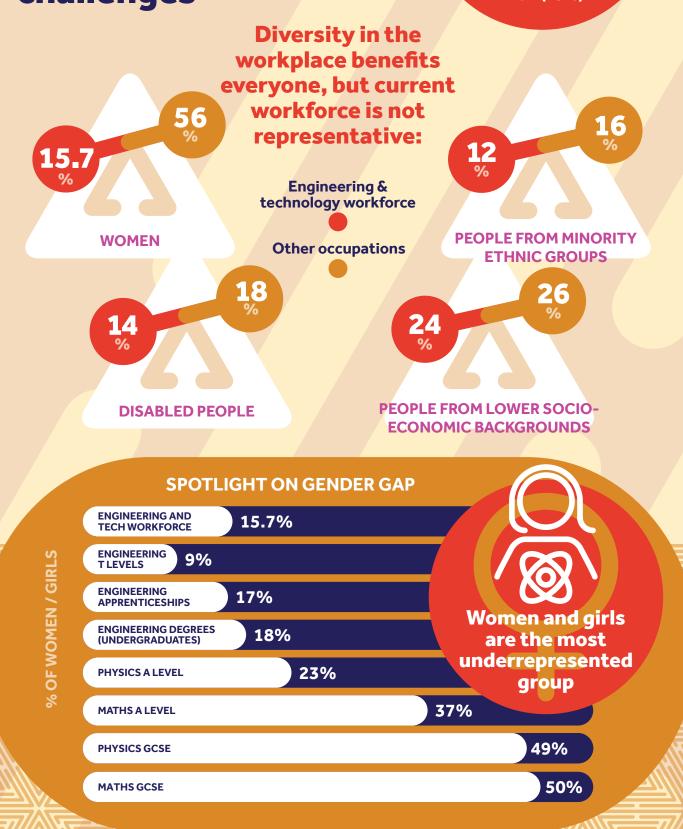


Job adverts mentioning 'green skills' new jobs needed to support the transition to net zero

But we have significant skills shortages and workforce challenges

1 in 5 jobs

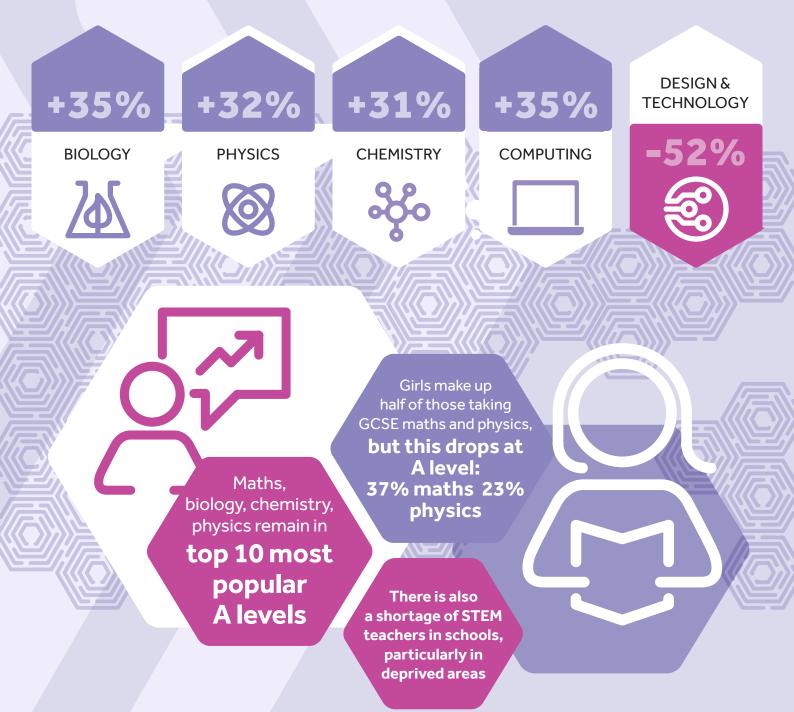
in the UK are in engineering (19%), yet engineering vacancies account for 1 in 4 of all job adverts in UK (25%)



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 9 years:



Interest in schools science has declined since 2019 and a gender gap has opened up

Interest among years 7 to 9 has declined from

76% 🛛 71%

For girls, the decline is

75% 🚾 65%

16% of girls think engineering is suitable for them

JUST

ONLY

of girls say being an engineer fits well with who they are

36% of girls say science is not for them

School students are

doing less practical

science

Practical science is the main motivator for young people studying science for

55% OF YEARS 7 TO 9

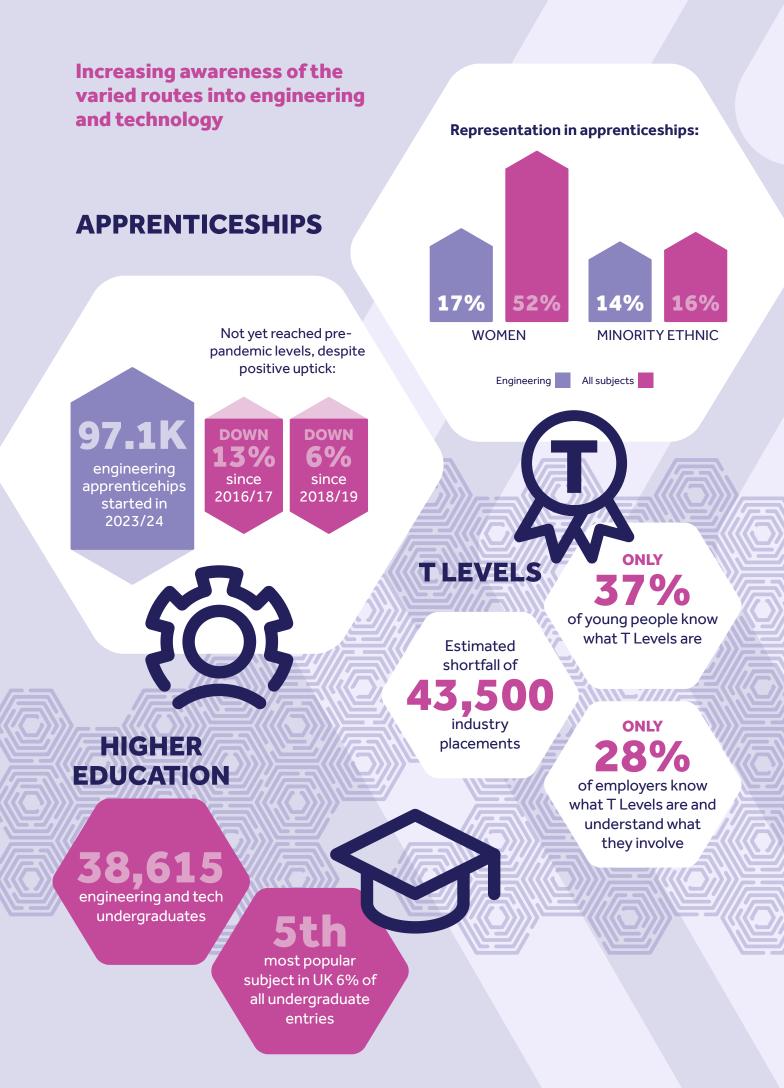
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ONLY 29% of girls are interested in

an engineering career, compared to **63%** of boys 23% and 52% for tech

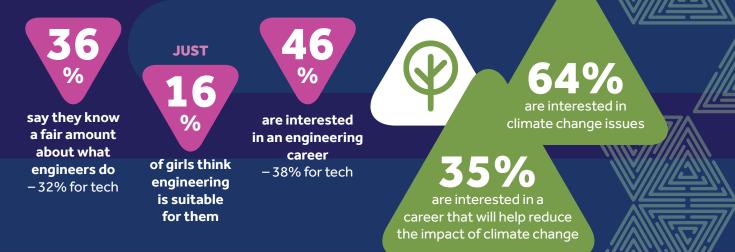
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26% of GCSE students do hands-on practical work at least once a fortnight, down from 44% in 2016

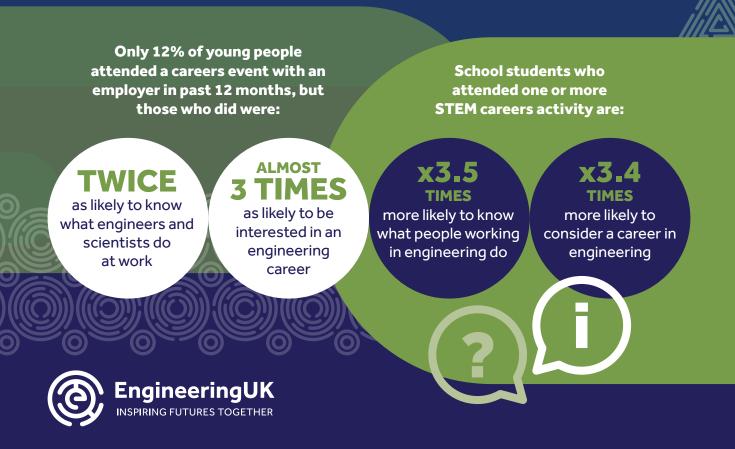


Outreach helps to drive change by informing and inspiring more young people to consider progressing into engineering and technology

Knowledge and perceptions among school students



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



🛞 www.engineeringuk.com 🍈 EngineeringUK 🛞 @_EngineeringUK

References: www.engineeringuk.com/references