EC ITB

ENGINEERING A BETTER FUTURE

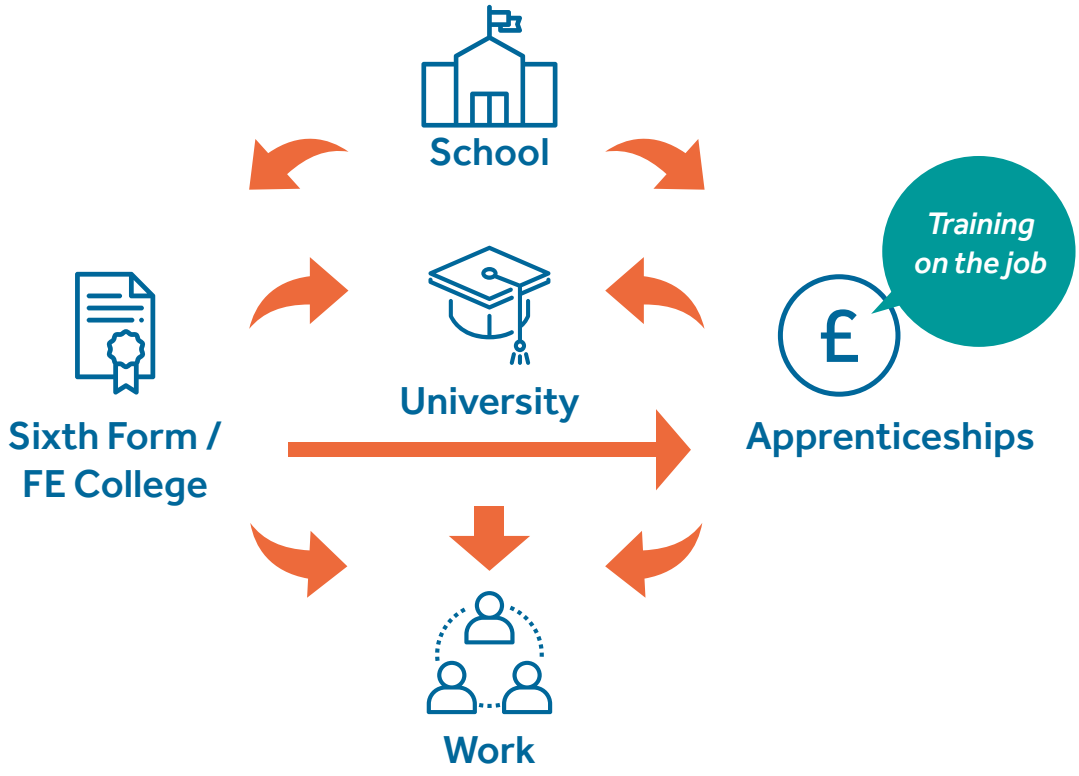
PLAY YOUR PART IN BRITAIN'S ENGINEERING FUTURE

What is engineering construction?

Engineering construction companies look after the **UK's critical infrastructure**. **In short, they keep the lights on, the water flowing and put food on the table.** The industry **contributes billions of pounds** to the UK economy. And the workforce is set to grow to support the country's **drive to net zero**.

People working in engineering construction design, test, install, operate, manage, maintain, repair, commission and decommission facilities. They put together superstructures ranging from wind farms to nuclear power stations and **tackle climate change** by **working with new energy solutions**.

Getting into engineering



Food and Drink

Food and drink is the biggest manufacturing industry in the UK, larger than automotive and aerospace combined. Examples of the sector's produce ranges from biscuits to beers.

Oil and Gas

Oil and gas provides more than 75% of the UK's energy. From manufacturing materials to make smart phones and tablets to keeping the house warm, oil & gas is part of our daily life. The industry is supporting the transition to a lower carbon future.

Renewables

Renewable energy is collected from the Earth's natural resources like wind, waves and biomass. Energy from renewables tends to be not only reliable but also clean and sustainable. This industry works with technology development and helps to improve the environment.

Nuclear

The UK's civil nuclear sector is amongst the most advanced in the world. It provides more than 20% of the country's electricity and is low carbon, reliable and affordable.

Water

The water industry provides drinking water and wastewater services (including sewage treatment) to residential, commercial, and industrial sectors of the economy. Population growth and limited resources make efficient water treatment crucial to our living standards.

Pharmaceuticals

Engineering construction workers build and maintain the machines that produce vital drugs and medicines for the UK pharmaceutical sector. More than 20% of top 10 global pharmaceutical companies have their headquarters in the UK.

Power

Power generation employs 10,000 engineering construction workers in the UK. These skilled people construct and maintain installations like power stations and turbines that generate electricity.

Chemicals

The UK chemical sector is highly diverse and impacts on almost every aspect of our daily life. The 3D print market relies heavily on the UK chemical industry.

6 Facts about careers in engineering construction

Great career

Transferable Skills

'Portable skills' that will be your passport to the world of engineering

Travelling opportunities

Work on major projects overseas as well as in the UK

Great money

Starting salary

Average graduate starting salary of £23K

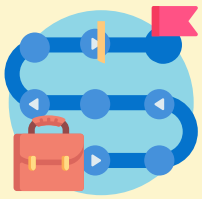
Career progression

Opportunities to advance and develop your career

Great future

Apprenticeship Opportunities

Earn while you learn



Growing workforce

33K new jobs in the next decade

Meet an apprentice

Jack Beaty
Welding Apprentice
Fenelon Tanks Humberside

"Some people look down on apprenticeships, but it's the best route," says Jack Beaty, a Level 3 Welding Apprentice with Fenelon Tanks in Humberside. "You're getting paid to learn and you're learning the real job," he explains.

Jack is pleased he pursued a vocational rather than academic start to his career: "When you go to university it's all books and theory, but in the workshop and on-site it's the real thing."

And he is excited use his new skills to broaden his horizons: "Once I finish the apprenticeship, I want to try different kinds of welding and go to new places. Hopefully travel about a bit and see what there is out there."

Meet a graduate engineer

"There are so many different ways to be an engineer. You can be anything really, you just need to be curious," says French engineering graduate Lou Charpentier-Dusoir.

For Lou, a career in engineering offers the chance to work around the world and learn new skills. "Ask yourself what you like in everyday life - is it travelling or meeting people? You can apply all those things to engineering and find a role that suits you."

Lou moved to the UK to complete her studies at Cranfield University before becoming a project engineer with Lorien Engineering Solutions. In one of her first roles as a project engineer Lou helped design a modern new factory for a major food production company.

"I really enjoy both design and technical elements of being a project engineer and I'm not too fussed about setting out a career path that's too well defined because there are so many opportunities you can take."

Lou Charpentier-Dusoir
Graduate Learner of the Year Winner – ECI Training & Development Awards 2018
Graduate Project Engineer, Lorien Engineering Solutions

Meet a scholar

Aiyana Sood completed a Level 3 Design and Draughting scholarship at Harrow, Richmond & Uxbridge College (previously called Richmond upon Thames College).

She particularly liked the mixture of different elements on the programme. "I am so glad I chose this course. It has more units than the vocational course and involves a lot of practical work."

Aiyana knew from a young age that she wanted to be an engineer. She said: "I thought I would be the only woman in my class but there's actually quite a few of us. It is nice to know there are other women out there who want to be engineers."

She encourages other women who are considering engineering as a career path. She said: "Do what you want to do. Go for what you are passionate about."

Her scholarship led to her being accepted onto a Level 4 HNC in Mechanical Engineering with Subsea7.

Aiyana Sood
ECITB Scholar Alumni
Mechanical Engineering Apprentice
Subsea7

For more information, please visit : www.ecitb.org.uk/careers

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