ENGINEERING TOUCHES EVERY ASPECT OF PEOPLE’S LIVES IN MANY DIFFERENT WAYS. EVERYTHING FROM THE PHONE IN YOUR POCKET, THE VIDEOS YOU WATCH ON YOUTUBE, SNAPCHAT AND INSTAGRAM, TO THE FOOD YOU EAT AND THE CLOTHES YOU WEAR.

Yet in the UK we do not have enough engineers to keep pace with demand - just 12% of those working in engineering occupations are women. If YOU are a young woman who is not sure what to do with YOUR future, engineering could be for you. Choosing engineering is not simply choosing a great career with great perks (good money, travel, variety and respect), it is a highly creative and innovative industry and engineers play a significant role in shaping the future of our ideas into reality.

You could be paving the way to a sustainable future that such a rewarding career has to offer.

ENGINEERING & YOU

EVERYDAY LIFE,

ENGINEERING & YOU

CYBERSECURITY

Cyber security professionals protect valuable information from cyber breaches and they work in virtually every industry, responding quickly to real-world threats.

- CYBER CRIMINALS are the ultimate security professionals, who hack into computer networks in order to test and evaluate its security, rather than for criminal intent.
- CYBERSPHERES develop algorithms, citizens and security systems to encrypt and protect information.
- SECURITY ENGINEERS help to safeguard organisations’ computer networks and systems. They plan and carry out security measures to monitor and protect sensitive data and systems from theft and cyberattacks.

CLEAN WATER

We’re very lucky to have access to clean water, and engineers ensure its safe for us to drink. The clear, colourless water in your glass cups had to go through many processes to make sure it doesn’t cause any harm.

- WATER RESOURCE ENGINEERS design raw water supply systems such as underground wells, springs and water treatment facilities to help conserve our water.
- ENVIRONMENTAL ENGINEERS ensure we have access to clean water that is safe to drink.
- CIVIL ENGINEERS are responsible for water supply and sewage systems.

ROBOTS/DRONES

Robots are becoming more and more common in our everyday lives - but who is making them?

- MECHTRONIC ENGINEERS build robots and robotic systems that are used in various industries and applications. They work on everything from automated vehicles to space exploration.
- ROBOTS are the autonomous systems that are responsible for performing tasks in a specific environment. They can be used in manufacturing, agriculture, healthcare, and many other industries.
- ROBOTICS ENGINEERS design robotics systems and research methods to manufacture them economically.

ENVIRONMENTAL ENGINEERS

Environmental engineers help identify and develop solutions to environmental problems in order to protect us from harm or enhance our quality of life.

- CIVIL ENGINEERS are everywhere, such as the roads and bridges we travel on but they also look after the environment that they provide clean water and take away waste.
- ENVIRONMENTAL ENGINEERS provide solutions to problems concerning the environment by modeling air and water pollution and improving design.
- AGRICULTURAL ENGINEERS are involved in farming and the equipment/machinery behind it.

SCIENCE

Technology

ENGINEERING

MATHS

THEME PARKS

Theme parks are lots of fun, but did you know all of the engineering that goes on behind the scenes?

- COMPUTER ENGINEERS make sure that all the rides and attractions in a theme park are safe to use by testing software to calculate the mass and friction.
- DESIGN ENGINEERS design to entertain and amuse attendees with interactive environments and high-tech thrill.
- CIVIL ENGINEERS in the context of theme parks, apply the principles of physics - mass, friction and speed - to make sure everything is fun, fast and moveable, as well as safe.

GAMING

Gaming is a very exciting industry where art and technology collide. So who works in games?

- ARTIFICIAL INTELLIGENCE PROGRAMMER is responsible for the processing and playback of sound effects, characters, voices and music to games.
- DESIGN PROGRAMMERS are responsible for the processing and playback of sound effects, characters, voices and music to games.
- ARTIFICIAL INTELLIGENCE PROGRAMMER is an element of computer science that enables the presence to react to intelligent entities. It's a very hard task to do with only a couple of skills that they have the same.

TECHNOLOGY

Technology is constantly changing the world around us - but who are some of the engineers behind it?

- COMPUTER ENGINEERS design and develop the latest computer systems and technologies.
- ELECTRONICS ENGINEERS design, develop and maintain electrical systems and devices, from light bulbs and laptops, to robots, phones and GPS technology.
- ACoustic ENGINEERS use science, design, and new techniques to control sound and vibrators, from automotive design to improving medical imaging.

PHONES

Mobile phones are one of the most used technology in the world - and different types of engineers create them.

- ELECTRONICS ENGINEERS deal with the electrical circuits and boards in your phone.
- SOFTWARE ENGINEERS are responsible for creating the applications in your phone.
- MECHANICAL ENGINEERS are concerned with the actual phone - all the components like the screen, casing and the dock strips.

Making food

There’s lots of work that goes on behind the scenes to make sure our food is tasty, healthy and nutritious!

- FOOD ENGINEERS focus on ensuring that the food we eat is both delicious and packed with nutrients, as well as improving food quality.
- Thanks to CHEMICAL ENGINEERS, everything that we can choose from a range of healthy, tasty and good tasting food.

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