Irene
Chemical Engineer

Hi! I'm Irene and my work focuses on making water safe to drink. I am **proactive** in coming up with new ways to remove viruses, bacteria and nasty chemicals from water. I test bubbles, ozone and different cleaning fluids – things often don't work first time but I am **determined** to succeed and like to **solve problems**. I love engineering as I can help create a better world.

I make water safe to drink

Denny
Chemical Engineer

Hi, I'm Deny! I love working with water, slime, oil and other chemicals. I have to be **innovative** to work out how to design better processes, like filtering dirt and germs out of water. **Communication** and **teamwork** are really important to me. I love engineering as it is a way for me to apply what I know to help other people.

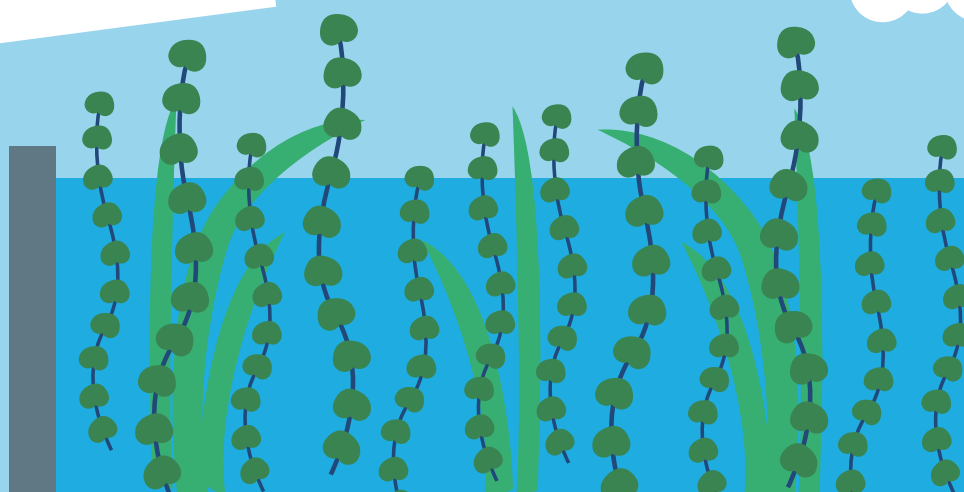I make chemical production better for the environment

Farnaz
Chemical Engineer

Hi! I'm Farnaz and I use plants and algae to make different coloured chemicals. I love engineering as I enjoy **solving problems** and **learning new things**. I need these skills and also to **work hard** when I try to grow the algae and find the best way to get the chemicals out.
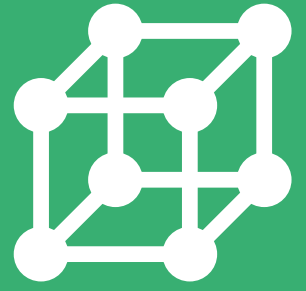
I use living things to make energy and medicines

Fionah
Chemical Engineer

Hi! I'm Fionah and I'm fascinated by built structures, both historical and modern. I hope to use my **analytical** skills to design sustainable structures, like roads, bridges, towers and dams, to last for years and years. I love engineering as we can bring ideas to life to help make the world a better place. **Team work** and good **communication** are critical to turn designs into reality.
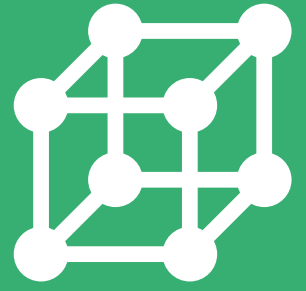
I am fascinated by structures.

Moh
Civil Engineer

Hi! I'm Moh and I test soil so people know how to build on top of it. I'm **passionate** about amazing buildings and my job is all about checking different types of soil and rocks to make sure when we build on them the buildings don't fall down. I take the **lead** on my work but it is also important to **listen** to, and learn from, others. There are so many different types of soil, rocks and buildings and I love the variety in engineering.
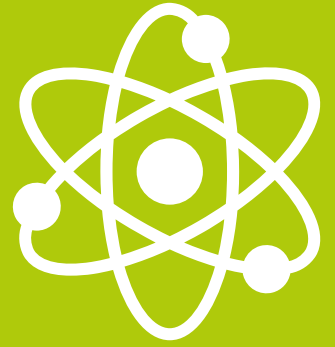
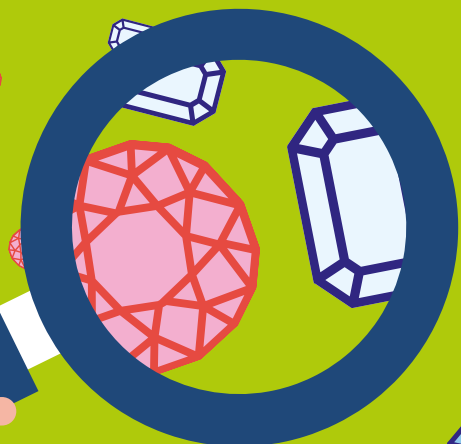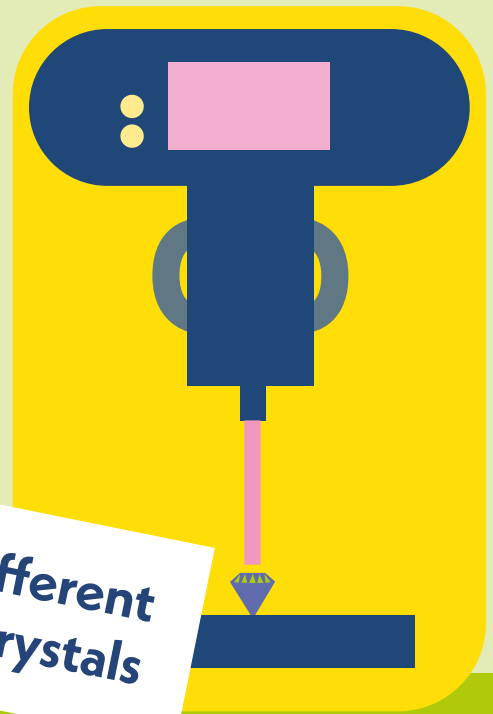I test soil so people know how to build on top of it.

Christiaan

Quantum Engineer

Hi! I'm Christiaan and I design different coloured crystals, understanding how the colour is created at a miniscule level. By understanding how the crystal colour works I can come up with **creative** ways to apply this in future technologies, like quantum computers which will allow faster ways to solve really tricky problems. I love how there is always something new to discover, and improve, within engineering. My ideas often fail several times but being **persistent** and **learning from mistakes** is a great way to progress.

I design different coloured crystals

Allison
Electrical Engineer

Hi! I'm Allison and I make sure our supply of electricity is reliable. I am really **curious** about how the electricity network will cope with adding more technology like charging electric cars. By being **persistent** I hope to help find a good **practical** solution to the problem. I love engineering as I get to solve tricky problems to help save the world.

I keep electricity supply reliable

Sarah
Electrical Engineer

Hi! I'm Sarah and I make planes safer by developing ways to help pilots spot and avoid other objects in the sky. I am **curious** about how things work, and enjoy designing new laser systems. **Communication** is essential as we work in a team to go from the ideas stage to finished product. My **enthusiasm** for engineering comes from the fact that it allows me to be part of creating a more interesting future.
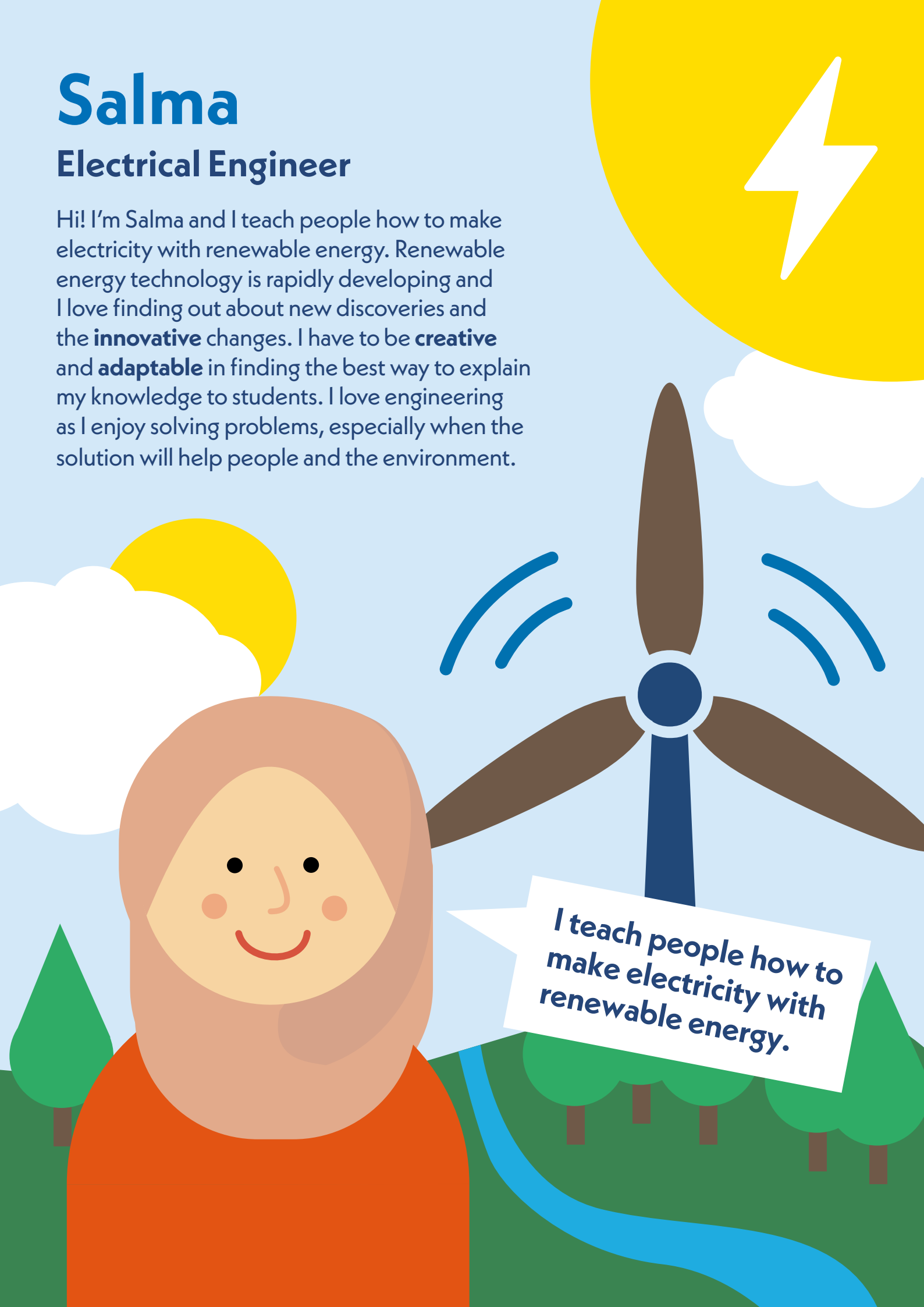
I help keep pilots safe when flying

Salma
Electrical Engineer

Hi! I'm Salma and I teach people how to make electricity with renewable energy. Renewable energy technology is rapidly developing and I love finding out about new discoveries and the **innovative** changes. I have to be **creative** and **adaptable** in finding the best way to explain my knowledge to students. I love engineering as I enjoy solving problems, especially when the solution will help people and the environment.
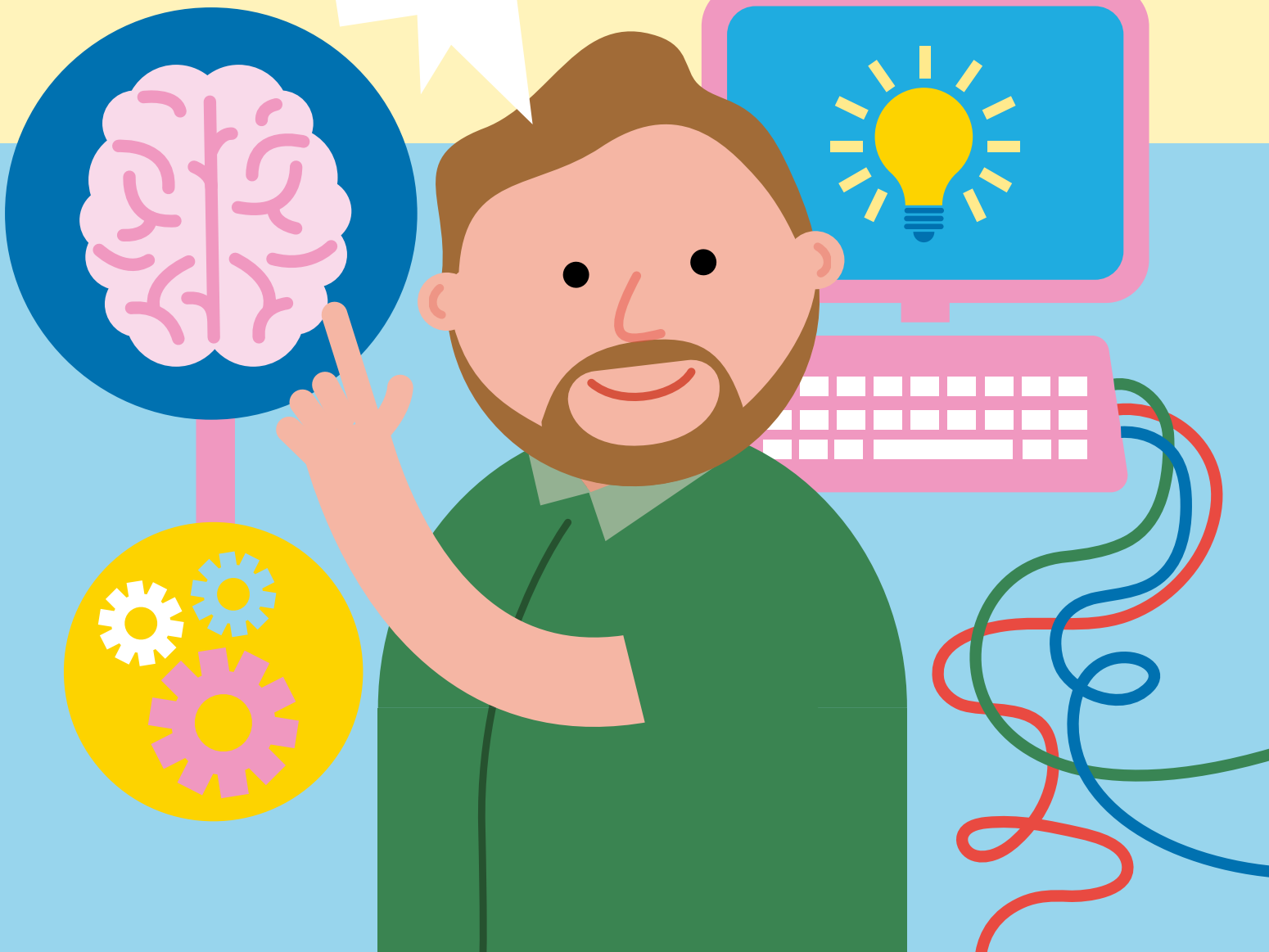
I teach people how to make electricity with renewable energy.

Paul
Electrical Engineer

Hi! I'm Paul and I learn from the human brain to make computers smarter. Engineering is amazing at making so much of our everyday life safer, easier and more fun. I love computer games and am **passionate** about improving how computers work. I take inspiration from the human brain and body and have to be **creative**, and **determined**, to apply that knowledge to make better computers and robots.

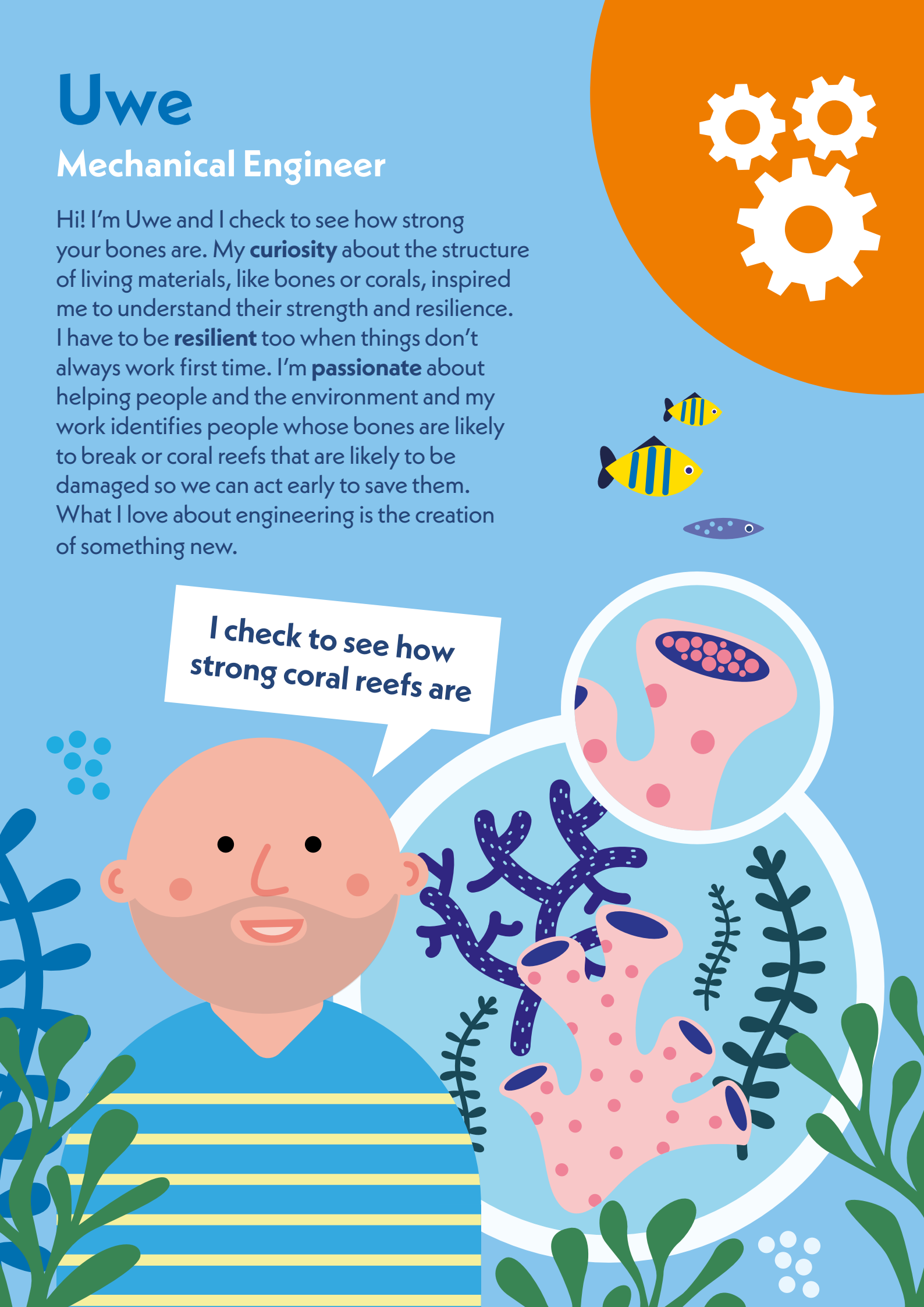I learn from the human brain to make computers smarter

Uwe
Mechanical Engineer

Hi! I'm Uwe and I check to see how strong your bones are. My **curiosity** about the structure of living materials, like bones or corals, inspired me to understand their strength and resilience. I have to be **resilient** too when things don't always work first time. I'm **passionate** about helping people and the environment and my work identifies people whose bones are likely to break or coral reefs that are likely to be damaged so we can act early to save them. What I love about engineering is the creation of something new.

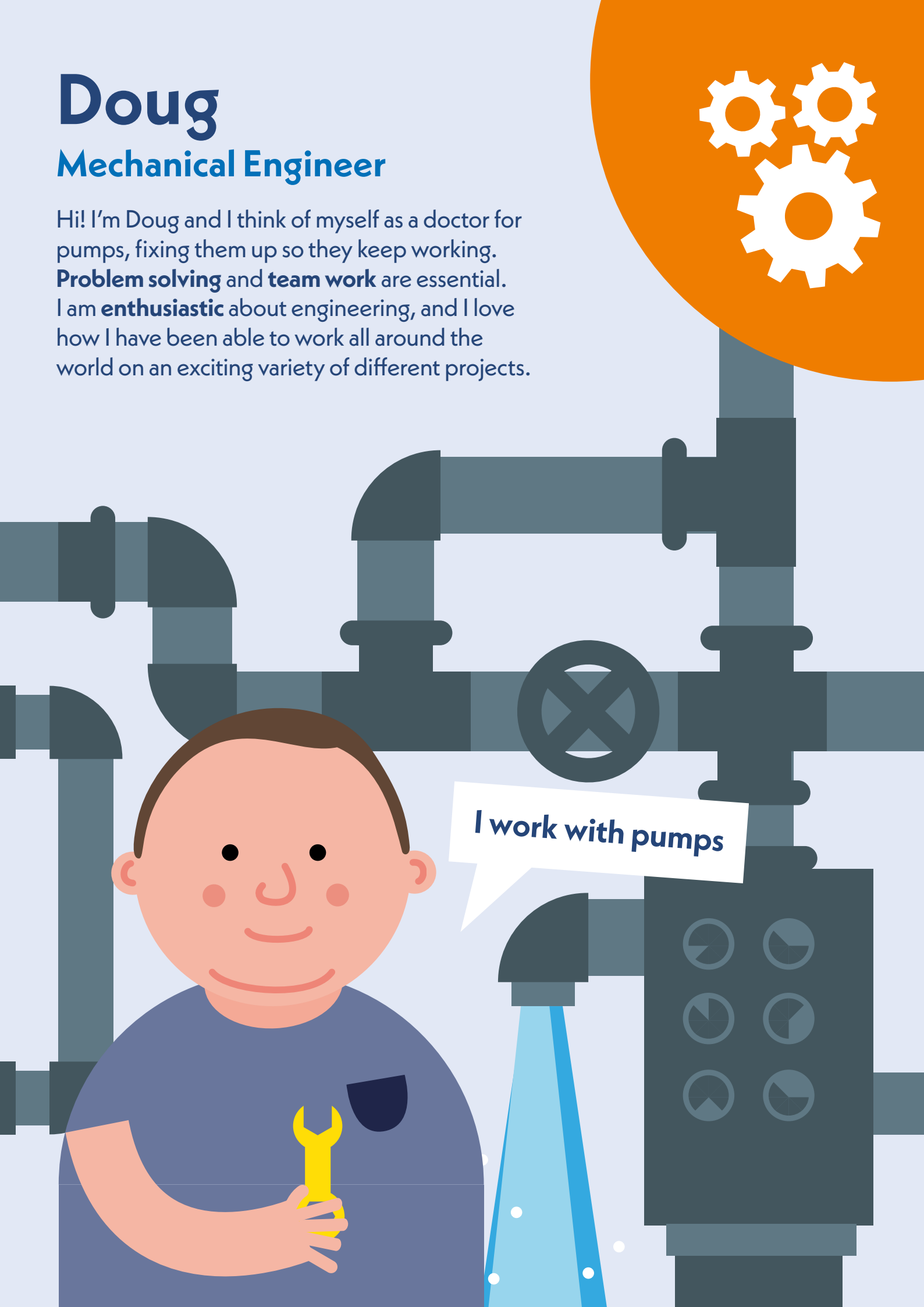I check to see how strong coral reefs are

Doug
Mechanical Engineer

Hi! I'm Doug and I think of myself as a doctor for pumps, fixing them up so they keep working. **Problem solving** and **team work** are essential. I am **enthusiastic** about engineering, and I love how I have been able to work all around the world on an exciting variety of different projects.

Jinglang
Mechanical Engineer

Hi! I'm Jinglang and I clean up rubbish in space. This requires me to be very **precise**, picking out the space debris from working satellites. I am **passionate** about space and **curious** about how things work. I love engineering because I like making new things.

I protect the Earth from asteroids

Faisal
Mechanical Engineer

Hi! I'm Faisal and I love exploring different materials. I **collaborate** with others to make sensors to measure how materials are performing, e.g. is the material a bridge made of still strong or is it breaking down? I also design new materials with new characteristics, which requires me to be **agile** and **adaptable** to try different ideas to come up with the best solutions.

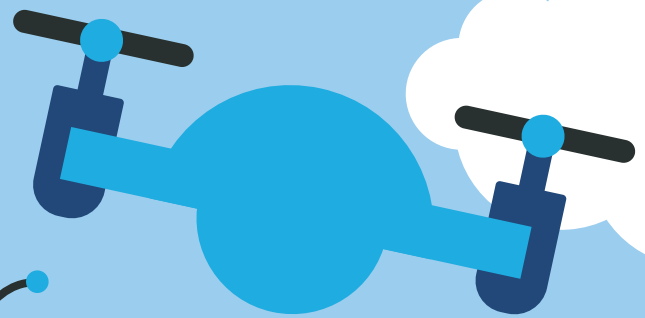I learn from nature to design stronger and stickier materials

Adah

Aerospace Engineer

Hi! I'm Adah and I love flying. I was determined to work with flight, from drones and airplanes to space satellites. **Discipline** and **self-motivation** helped me succeed and now I design orbits for satellites, making sure they are in the right place to monitor the weather or pass on TV and internet signals. I love engineering for the **creativity** involved to come up with new designs.

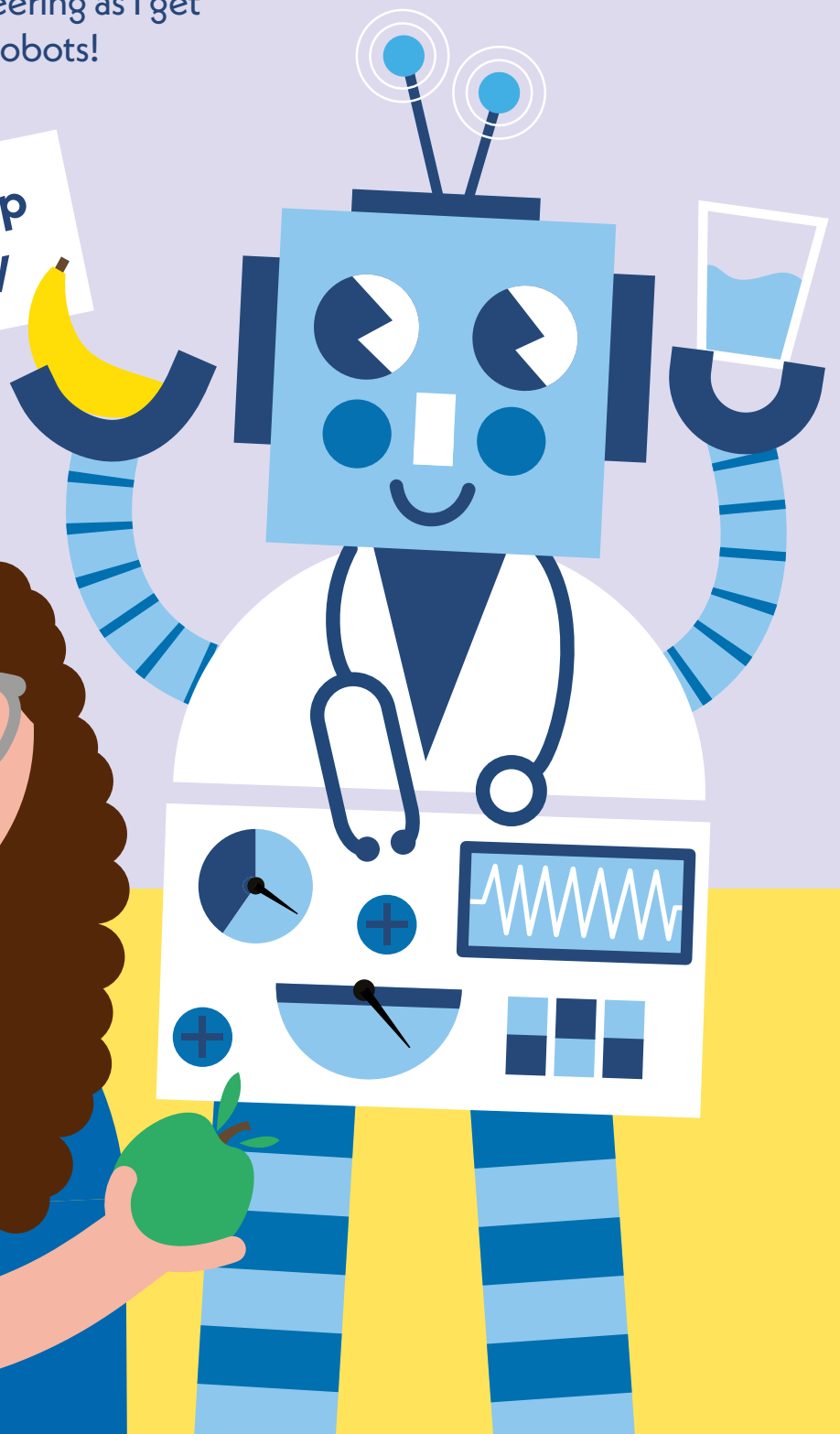I love flying and I design drones, aeroplanes and space satellites

Emilyann
Software Engineer

Hi! I'm Emilyann and I design robots to help people stay healthy. To make sure the robots are useful **I listen** carefully to the people who will use them, then my team **work together** to improve the way the robots work. I am always **striving to improve** and make the robots as good as possible. I love engineering as I get to help people and play with robots!

I design robots to help people stay healthy

Sara
Software Engineer

Hi! I'm Sara and I'm on a mission to see if anybody lives on other planets. I'm **passionate** about space and my **curiosity** led me to develop instruments to help us learn more about Mars. Space exploration is always very **cooperative** working with engineers from all around the world. Being part of a space mission is amazing and that is why I love engineering.
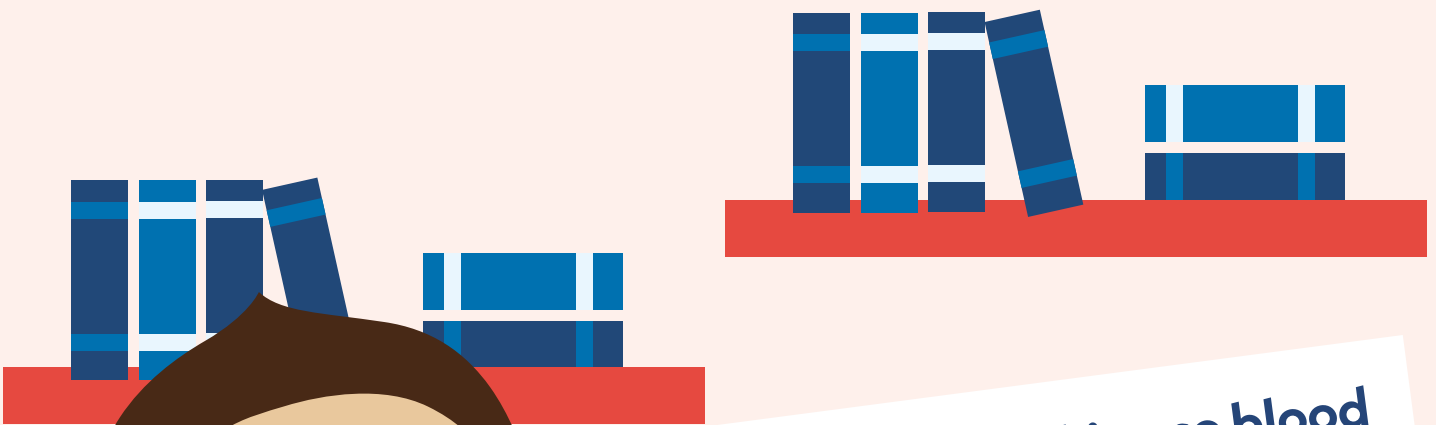
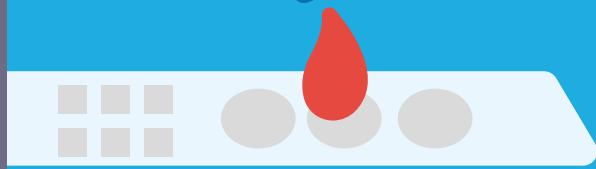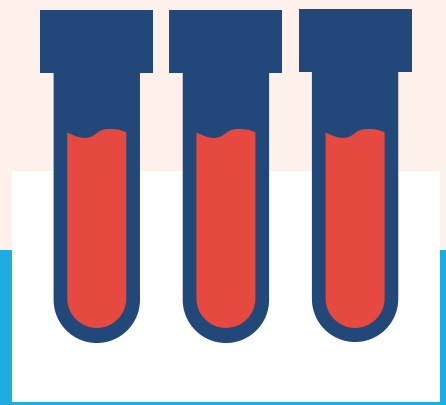I'm on a mission to see if anybody lives on Mars.

Ameya
Biomedical Engineer

Hi! I'm Ameya and I help people stay healthy. I design blood tests to see if people are ill which requires **creativity** in coming up with ideas, and **resilience** when at first they don't succeed. My **curiosity** about how things work motivates me to keep trying. I love engineering as I like to solve problems and make a difference to the people around me.
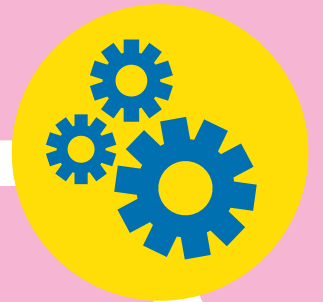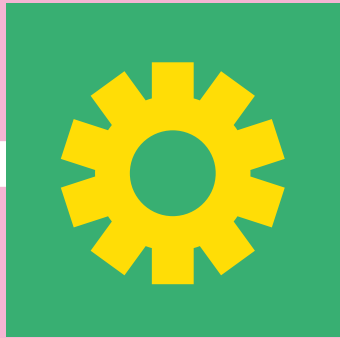
I'm building a machine so blood tests can be done at home.

Diane
Quality Engineer

Hi! I'm Diane and I love solving problems. Being **inquisitive** means I ask lots of questions and identify the cause of any issues on the factory production line where I work. Finding a solution requires **imagination** and **vision.** I love engineering as everyday at work is different and it is so satisfying to solve problems.

I make experiments to solve problems.

Antonio

Acoustical Engineer

Hi! I'm Antonio and I make drones sound less noisy. I love engineering because it allows me to improve people's lives. To do that it is important to listen to what they want and need, c**ommunicate** clearly and **involve people** in deciding what to do. Making less noise is tricky so we need lots of different skills and I enjoy **working in a team** with different engineers.

I make drones sound less noisy!