



OUR GREEN SKILLS: CAREERS IN SUSTAINABILITY



Matt

**Centre for Sustainable and Circular Technologies
University of Bath**

What do you do?

I do research into how we can make batteries safer and from more sustainable materials. This is so that we can work towards 100% renewable energy production.

Why did you choose your job?

I got into this work because of my interest in sustainable technologies and my desire to help create them. Important skills include compassion, open-mindedness, and a pragmatic approach to solutions.

Ellie

**Research Engineer
National Composites Centre**

What do you do?

I research ways to use natural fibres in manufacturing, reducing the amount of material we use to make stuff and helping to make products more sustainable, lightweight and strong. I also research way of reducing the amount of maintenance products need.



What did you learn in school that you still use now?

In school I remember learning about materials and their properties, heat transfer and Pythagoras's theorem in lessons, which I still use now.

Chris

**Eco-Design Engineer
Thales**



What do you do?

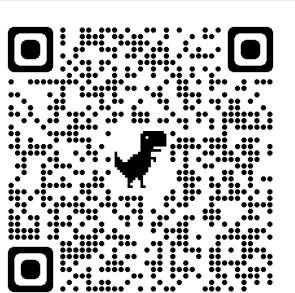
I do environmental management for big engineering projects. I identify potential environmental impacts (e.g. using lots of resources, generating lots of waste), research ways to overcome the problems and help write environmental impact statements.

What skills are important in your job?

A skill that is important in my work is the use of emotional intelligence to understand other people's perspectives. This helps me find mutually acceptable approaches to solving problems.



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Kaz
Aerothermal Engineer
Rolls-Royce

What do you do?

At Rolls-Royce we are designing aircraft engines that are more fuel efficient and can run on sustainable aviation fuels (SAFs). We are also designing engines for electrical aircraft and aircraft powered by hydrogen.

What did you learn at school that inspired you?

When I was young I took things apart to see how they worked! This gave me an awareness of engineering. I now use my curiosity to help develop technological solutions for a green future.

Dr Tariq
Lecturer in Construction Project Management
UWE, Bristol



What do you do?

I do research on and teach about construction management, construction materials, renewable and sustainable energy, and engineering sustainability.

Why did you choose your job?

I studied Civil Engineering and chose teaching and research so I could help solve important problems and develop future engineers to make our Earth a better place to live.



Helena
Flood Risk and Drainage Engineer
Cole Easdon Consultants

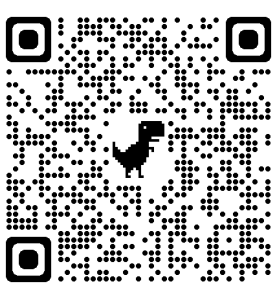
What do you do?

I assess flood risk and design sustainable drainage systems which take into account future climate change. This helps improve water quality and increases biodiversity which benefits both the natural environment and the built environment.

What skills are important in your job?

Technical skills and scientific knowledge are important, but so are good communication skills. It's vital to understand what is important to other people.

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