



INWED #engineeringheroes 2021

Future transport heroes

Meet our future transport heroes who are researching and developing cleaner, greener and smarter transportation and fuel options.

Travel is necessary, whether that is to school and back, to another country on holiday or for work or to visit relatives and friends. Cars, aeroplanes, buses, trains and other vehicles all need energy to run and our heroes are looking at new ways to reduce the impact that these vehicles and their fuel have on the environment. Whether that is using a fuel that has fewer emissions, reducing the vehicle's weight so it doesn't need as much fuel to move or fly or reducing the costs and resources required when the vehicle is manufactured.

You can find out more about all our heroes. Ask your parent, carer or teacher to visit our engineering heroes homepage at www.cranfield.ac.uk/INWED



Professor Helen Atkinson

Job title: I lead a team of engineers working on exciting projects for air travel, transport, and manufacturing.

Superpower: Engineering and being a leader of teams of people.

STEM strengths: Understanding how and why things are the way they are and how everything links together.

Teamwork skills:

- 1 Supporting people.
- 2 Understanding what is causing problems.
- 3 Helping people overcome challenges.

Challenge/weakness:

Knowing when to take a break from work - sometimes my husband and my children have to remind me.



Dr Romali Biswal

Job title: I research advanced manufacturing processes to promote sustainability.

Superpower: Physics.

STEM strengths: Mathematics, chemistry and physics.

Teamwork skills:

- 1 Being friendly.
- 2 Being easy going.
- 3 Working together.

Challenge/weakness:

A knack of avoiding work that I'm not enthusiastic about until the last minute.



Future transport heroes

Neda Shateri

Job title: I research batteries for green transport systems.

Superpower: Testing, modelling and control.

STEM strengths: Physics, chemistry and maths.

Teamwork skills:

- 1 Supporting others.
- 2 Solving problems.
- 3 Being friendly.

Challenge/weakness:

Computer programming (it can be required in my job and can be challenging).



Dr Bahareh Zaghari

Job title: I research and design hybrid-electric aircraft to reduce emissions and save our planet.

Superpower: Solving problems others can't solve by looking at them from another angle.

STEM strengths: Experimental, electrical and mechanical design, and engineering.

Teamwork skills:

- 1 Being adaptable.
- 2 Supporting others.
- 3 Aiming high.

Challenge/weakness:

My memory (I find it difficult to remember specific numbers or projects. I remember ideas and relationships).

