



International Alliance heroes

All heroes need help from time to time and this is where our international alliance comes in. The international alliance are just a few of the huge international alliance we work with every day. Often, problems or opportunities are complicated. It can be hard to find solutions. University's and businesses work together to help each other with ideas, time, equipment, and resources, to help solve problems together and come up with great ideas as a result.

Meet some of our friends who help us and perhaps they could help you too?

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/engineeringheroes



Emma Cuddy – Civil Aviation Authority

Job title: I make sure airlines are keeping the aircraft safe to fly.

Superpower: Engineering.

STEM strengths: Electronic/avionic engineering, maths, fixing things, good working with tools, seeing how puzzles fit together (problem solving).

Teamwork skills:

- 1 Listening.
- 2 Solving problems.
- 3 Detective skills.

Challenge/weakness:

I lack self-confidence, so it is a challenge for me to recognise my strengths and believe in myself. I am also dyslexic and struggled with exams.



Abi Hird – Knowledge transfer network (KTN)

Job title: I help product developers to go from design to product manufacture.

Superpower: Listening.

STEM strengths: Spotting connections and understanding relationships and emerging behaviours.

Teamwork skills:

- 1 Listening.
- 2 Being able to focus on finding the best route to solve a problem.
- 3 Being calm in a crisis.

Challenge/weakness:

Details, such as checking spelling, making sure there are no mistakes in reports.



International Alliance heroes

Janet Manning - Royal Horticultural Society

Job title: I help gardeners find ways to manage water in their gardens.

Superpower: Being an all-rounder (mixing engineering, physics, chemistry, microbiology and horticulture).

STEM strengths: Chemical process engineering.

Teamwork skills:

- 1 Being goal orientated.
- 2 Looking for opportunities.
- 3 Working together.

Challenge/weakness:

Lots of writing can be boring sometimes, but if you design a system that works for you it can be more fun.



Emma McCreesh – Civil Aviation Authority

Job title: I review reports from the aviation industry to ensure aircraft remain safe to fly.

Superpower: Analysing data.

STEM strengths: Problem solving, root cause, technical presentation/reports, aviation maintenance, maths.

Teamwork skills:

- 1 Detective skills.
- 2 Solving problems.
- 3 Being friendly.

Challenge/weakness:

Running late, balancing lots of tasks and knowing when to take a break.



Anne McIlveen – Boeing

Job title: I provide engineering and technical support for military cargo transport aircraft.

Superpower: Knowing what's most important.

STEM strengths: Aerospace engineering.

Teamwork skills:

- 1 Solving problems.
- 2 Keeping calm.
- 3 Having a sense of humour.

Challenge/weakness:

Spelling!



Naomi Sandford-deQuincey – Network Rail

Job title: I support my company in reducing our environmental impact by providing technical advice.

Superpower: Analysing the big data to find improvement areas.

STEM strengths: Being able to feedback well.

Teamwork skills:

- 1 Asking questions.
- 2 Being friendly.
- 3 Working together.

Challenge/weakness:

Finding priority tasks, knowing how long something will take me.

