

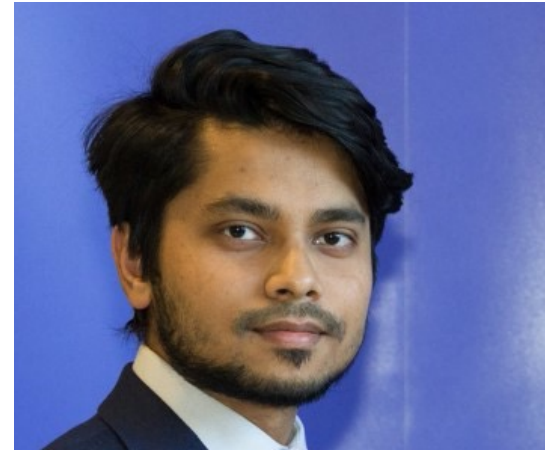
A SCIENTIST just like me



Rafsan Chowdhury
Mechanical Engineer

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**Hi there! I am Rafsan Chowdhury -
a mechanical engineer**



Where do I work?

I work for Rolls-Royce. We provide power for planes, helicopters, trains, boats, submarines and more!

What did I like doing when I was at school?

I loved analytical, creative subjects. For D.T. we would make toy cars out of wood and I was the only one that made a three-wheeled car!

What do I like doing in my spare time?

I volunteer with the Institute of Mechanical Engineers and I am a school governor. I also love travelling around the world in planes made of Rolls-Royce engines.

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What do I do as a mechanical engineer?



I make sure that the plane engines are reliable and safe to fly. If we find a problem, I have to investigate what caused it, and then try and find a solution. I also work on designing, manufacturing and maintaining plane engines.

How does what I do make the world a better place?

My job allows people to fly safely across the world to visit their friends and family and meet new people. It also allows for the transferring of essential cargo such as medical supplies to countries that need them.

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What I like about my job

My job is challenging and I am always learning something new. I have realised it's easier to solve problems as a team than it is when you work alone. I also love that we make and maintain a physical product that is used by everyone and has a huge impact on the world.



Challenges I have faced

I am the first person to be an engineer in my family so I didn't have any guidance and had to learn everything myself. This is why I love to guide and inspire people like me who want to become engineers!

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If you want to be a mechanical engineer, you need:

- ✦ to **enjoy problem solving**; solving small problems all the time will train your brain to solve more complicated problems in future.
- ✦ to **have a curious mind**; learn how a system works and see if you can find a way to improve it.
- ✦ to **work with others**; we can achieve great things by working together!



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Discussion time

- ✦ Would you like to be a mechanical engineer like Rafsan Chowdhury?

Why? Why not?



- ✦ What skills and interests do you already have that would help you become a mechanical engineer ?
- ✦ What new skills and knowledge would you need to develop?

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Free supporting resources for mechanical engineering

I bet you didn't know... articles use cutting-edge science research as a context for learning. Teacher Guides describing the research and activities and investigations for children can be used as classroom presentations:

- Water can be harvested from the air in very dry climates
- What small robots can do
- Toilets in the future may charge your mobile phone

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