

A SCIENTIST just like me



Jyoti Sehdev
Senior civil engineer

A SCIENTIST just like me

Hi there! I am Jyoti Sehdev – A civil engineer



Where do I work?

I work in London on rail projects, such as London Bridge train station and the High Speed 2 railway. I use digital technology to construct the world around us.

What did I like doing when I was at school?

I really enjoyed all subjects, but I particularly liked maths, the sciences and geography. I love that I use all these subjects in my job.

What do I like doing in my spare time?

I love playing football and spending time with my friends and family. When I'm alone I like to read and play piano and play video games.

A SCIENTIST just like me

What do I do as a civil engineer?



I design and build the world around us, structures that can include railways, buildings, roads, and bridges. Engineers are often on construction sites checking that the structure is being built properly and I make sure we keep people and nature safe when we're building.

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

Civil engineering is all about making the world a better environment to live in. The rail projects I have worked on help to connect people across the country. I have also strengthened a bridge so it did not fall down, and I have done work to prevent towns from being flooded.

A SCIENTIST just like me

What I like about my job

I love that my job helps people and can have a positive effect on the environment. It is very satisfying to see your efforts change the physical world around you and you can see people engaging with and using your work every day.



Challenges I have faced

A lot of girls are not encouraged into construction and technology so sometimes you can be one of a very few women on the job. However, I am seeing the number of women in the industry increasing every year, and I have made some lifelong friends.

A SCIENTIST just like me

If you want to be a senior civil engineer, you need:

- ✦ to **engage with new technology** and adapt to using digital tools so you can use it **solve real-life problems**
- ✦ to **want to work with people** because we need to work in big teams to build big solutions
- ✦ **to care for the world around us**, because in everything we do we need to make sure it is sustainable



A SCIENTIST just like me

Discussion time

- ✦ Would you like to be a senior civil engineer like Jyoti Sehdev?

Why? Why not?



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

A SCIENTIST JUST LIKE ME

Free supporting resources for civil engineering

[Science at Work](#) – watch the video ‘Meet two engineers’ where Jyoti talks about her work and answers children’s questions. See also the ‘Isambard Kingdom Brunel’ video

[Engineering Our World](#) – a series of activities for children aged 7-11 which use famous scientists and engineers as a spring-board for group-based engineering activities

[Challenge Chasers Club](#) – a series of practical activities presented as challenges to solve for children aged 7-11

[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:

- Toilets in the future may charge your mobile phone

Created by the Primary Science Teaching Trust

