

We shape skylines

Meet engineers working in the construction industry and explore where a career in engineering could take you:



Roma Agrawal

Job: Structural engineer

Employer: WSP

What I do all day: I use my maths and design know-how to make sure futuristic skyscrapers like the Shard don't fall down.

Perk of the work: I change the city skyline – I can see my creations all over London.

In future, engineers like me...Will help make more space in crowded cities by building up.

Find out how Roma got to work on the Shard

(Image credit: Nicola Evans)



Yewande Akinola

Job: Environmental engineer

Employer: Arup

What I do all day: I design water and energy systems for buildings, to make great spaces for people to live and play.

Perk of the work: I get to work all around the world designing buildings, from luxury hotels in China to houses in Africa.

In future, engineers like me...Will make ecofriendly buildings that work with the environment and use local resources like solar power and rainwater, all over the world.

Discover more about Yewande's globetrotting career



Xi Liu

Job: Environmental engineer

Employer: Imperial College London

What I do all day: I work out how to cover buildings with plants to make our grey cities green.

In future, engineers like me...Will make city living healthier by designing beautiful plant-covered buildings and streets that collect water, prevent flooding, cool cities down and clean the air.



Divindy Grant

Job: Water engineer

Employer: Mott MacDonald

What I do all day: I come up with environmentally friendly ways to get water to cities. I use local resources like rivers and lakes, and clever techniques like rainwater harvesting.

Perk of the work: I get to work all over the world, from all over Europe, to Africa and Asia.

In future, engineers like me...Will make sure we can always get clean water, even as our climate changes.



Sakthy Selvakumaran

Job: Innovation Engineer

Employer: Laing O'Rourke

What I do all day: I use virtual reality to plan new ways to construct buildings. We use robots to make the big pieces, then cranes stack them up like a giant Lego jigsaw.

In future, engineers like me...Will build new buildings, or even cities, at record speed, providing homes, schools and hospitals for our growing population.