

## FUTURE CITIES (VIRTUAL)

*Course Availability - unfortunately this course is now full but we are still accepting female and male applications for the reserve list*

Have you ever marvelled at the cutting-edge beauty of the Shard, or crossed a suspension bridge and craned your neck to appreciate the endless stretches of cables? This virtual course, run in collaboration with experts from the University of Southampton, explores how Civil Engineers design and develop these amazing structures and much more, making our cities clean, safe and energy efficient. From skyscrapers and bridges to water and waste services, civil engineering is all around us. This course is for Year 12 in England and Wales, S6 in Scotland and Year 13 in Northern Ireland.

Civil Engineers work on environmentally friendly infrastructure, but they also manage existing public services and work to improve future sustainability. Students will learn the social value of a career in Civil Engineering from leading academics and improve their CVs and UCAS applications, whilst engaging with real-life engineers from Ove Arup – a leading British multinational company, which provides services across every aspect of the built environment.

**'I enjoyed the practical sessions as I liked the fun challenges, but I also loved the learning that we did beforehand to help us.'** *Future Cities Course Student 2021*

**This event includes the following:**

- Research techniques for reducing air pollution
- Investigate impacts of autonomous vehicles on daily life
- Explore concepts of structural stability and performance
- Use interactive software to construct a bridge and test its resilience
- Design and test a virtual building model



### WHEN

25 Jul - 27 Jul 2022

Start time: 09:30 hrs

Finish time: 15:30 hrs



### WHERE

Virtual



### COST

Free