

What is Engineering?

- Engineering is the practical and creative application of science and maths.
- Engineers use their knowledge to make things work and solve problems
- Engineers have a hand in most manmade objects...pretty much everything you can think of has been engineered in some way.
- There are numerous disciplines of engineering, which include:
 - **Civil / Structural / Mechanical / Electrical / Aeronautical / Space / Computer / Chemical / Environmental / Geotechnical / Biomedical**
- Engineers are involved in the design and construction of buildings, infrastructure, such as bridges and airports, machinery, space shuttles, wind turbines, mobile phones, computer networks....

[To get an insight into what Civil Engineering is all about, watch this video.](#)

[To find out more about the various types of engineering watch this presentation](#)

Who can be an engineer?

Anyone can be an engineer, but to do it does require certain qualifications. Take a look at the '**Education routes to chartership PDF**' on the Skills Show. It shows the pathways from completing GCSEs to becoming a Chartered Engineer. This example is for Civil Engineering, where some of the education pathways can be studied for in Jersey.