

# Engineering

*Activity for Schools and Colleges  
2022/2023*



Our engineering courses give students a learning environment that's as close as possible to the real world. Based in the £11 million Hertha Ayrton STEM Centre, they give them hands-on experience of the tools and equipment used in industry, from flight simulators, wind tunnels and automotive workshops to structural integrity, thermofluids and robotics labs.

They also give students the chance to hone their skills on real projects, and spend a year on a paid work placement. Many are accredited by professional bodies, and all are informed by partnerships with major employers such as Rolls-Royce, Tata Steel, Kimberly Clark, JCB and Network Rail.

**Please note all sessions are suitable for KS5 students. For KS3/4, please get in touch to see what opportunities are available.**

# Engineering at SHU

Our brilliant team of experts within the department can deliver tasters and talks on request, covering our Engineering course areas of Aerospace, Automotive, Chemical, Electrical and Electronic, and Mechanical.

Previous sessions have included:

- **Design the Ultimate Frisbee-** Ever wondered about the aerodynamics of Frisbee flight? Explore the Aerodynamic Design of a Spinning Sports Disc
- **The Magic of Material Property Manipulation-** test pre-prepared samples and gain an understanding of how to modify the mechanical properties of a steel
- **Chemical Engineering of Coffee-** use filter coffee machines and energy monitors to understand how chemical engineers convert raw materials to products
- **Detecting Counterfeit Coins-** Use hand lens, electronic balance, digital calipers to evaluate coins and compare them with the Royal Mint specification.

We can also offer other activity in this space by request, and can facilitate specific one-off sessions or bigger events that cover talks and wider aspects of university life.



To book in activity, or for more information please  
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