

Renishaw Education Outreach

Technology Teardown

3 hour workshop

This practical hands on workshop will look at product analysis of different every day products. It involves taking apart a range of consumer and industrial electromechanical devices; e.g. cameras, phones, laptops and hard-drives. The aim is to understand the technologies and techniques used so that we can design better products!

A tour of our demonstration area and a careers talk can also be included in this practical workshop.

Biscuits and refreshments will be served during the workshop

What are the benefits to pupils in your school attending this course?

- Develop problem solving skills
- Understand how a product is made
- Pupils will design with more imagination once they understand technologies

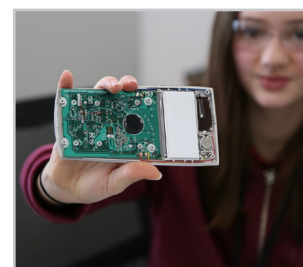
Who should attend?

- Key stage 3 year 9 pupils taking technology GCSE subjects
- GCSE Design & Technology
- Engineering pupils
- AS/A level Product Design pupils



Curriculum links

- Learn about the properties and characteristics of materials and products; apply this knowledge when designing and making products. (Design and Technology Key Stage 3).
- Explore and investigate existing products to inform possible specification points for designing (GCSE Design and Technology 2017 – Core skills)
- Product analysis, reverse engineering, aesthetic detailing and technological performance of components (AS and A Level in Design and Technology 2017 – Core technical principles)



Venue: Renishaw Innovation Centre, Renishaw plc, Wotton-under-Edge, Gloucestershire GL12 8JR

Time: AM and PM sessions available

Cost: FREE* - Just bring enthusiastic young people with an interest in engineering; maximum of 30 pupils per workshop

Date: Dates can be arranged to suit your school. Applications can be made by requesting a date directly by email or phone



*Please note - Pupils must be accompanied by a qualified teacher whose subject is related to the workshop being held. We would encourage the teacher to be involved with the workshop as much as possible.

For more information, visit www.renishaw.com or contact education@renishaw.com



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About Renishaw

Renishaw is one of the world's leading engineering and scientific technology companies, with expertise in precision measurement and healthcare. The company supplies products and services used in applications as diverse as jet engine and wind turbine manufacture, through to dentistry and brain surgery. It is also a world leader in the field of additive manufacturing (also referred to as 3D printing), where it is the only UK business that designs and makes industrial machines which 'print' parts from metal powder.



The Renishaw Group currently has more than 70 offices in 35 countries, with over 4,000 employees, of which 2,700 people are employed within the UK. The majority of the company's R&D and manufacturing is carried out in the UK and for the year ended June 2016 Renishaw achieved sales of £436.6 million of which 95% was due to exports. The company's largest markets are China, USA, Germany and Japan.

Renishaw Innovation Centre

The Renishaw Innovation Centre was formally opened by HRH the Princess Royal in July 2015. The building is the largest new construction in the company's history and represents a £20 million investment for Renishaw and confidence in its future in Gloucestershire where it is already the county's largest private employer.

The additional 153,000 sq ft of space houses research and development and corporate services staff, as well as demonstration, training and conference facilities.

Within the Renishaw Innovation Centre all 40 meeting rooms are named after British innovators, primarily in the fields of science and engineering, but also innovators local to Renishaw's headquarters site such as Tyndale, Jenner and Pitman. The main conferencing facility is named after UK engineering icon Isambard Kingdom Brunel who was responsible for many iconic structures in the West of England region including the Clifton Suspension Bridge and the ss Great Britain. Other rooms are dedicated to significant innovators including Whittle, Faraday, Lovelace, Haslett, Babbage, Turing, Caxton and Stephenson.

Said Sir David: "This excellent new building is a place which we hope inspires people and whilst it is very much focused on the future and helping Renishaw and our customers to achieve ever greater technology breakthroughs, we are also very keen to honour those British innovators who have helped us as a society get to where we are today."

For more information, visit www.renishaw.com or contact Rebecca Bound by phone (01453 524132) or email (rebecca.bound@renishaw.com)



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