

Renishaw's Approach to Education Engagement

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Renishaw introduction

Founded on innovation

 first touch-trigger probe invented in 1973 to measure instrumentation pipes for the Olympus (Concorde) jet engine

 organic growth sustained by patented innovations – from dimensional metrology to healthcare

£536.8 million turnover (2017),
95% exported





Origins

Founded on innovation

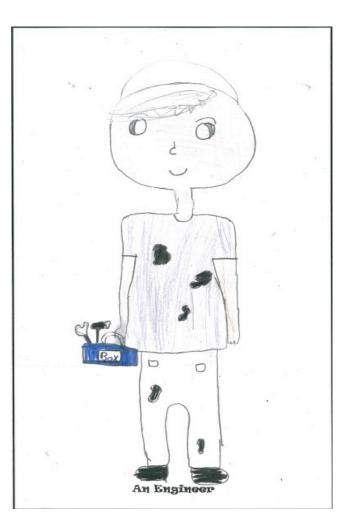
- £63.3 million spend on R&D and engineering (13% of turnover)
- FTSE 250: >£3 billion valuation
- 18 Queens Awards
- over 4,500 employees in 35 countries
 (2,700 in Gloucestershire & South Wales)





Finding future engineers

How do young people perceive today's engineers?









Opportunities available at Renishaw - 2017

- Summer Placements 60
- Industrial Placements 40
- Graduate programme 45
- Pre-University Placements 5
- Apprenticeships 41
- Work experience placements 120



Total number of young people in 2017



How do we build our pipeline?



Engagement with Schools in Wales

Pre GCSE KS2&3

'I like science'

GCSE KS4

'I choose science'

A level

'I choose engineering'



Outreach schools programme

Fabrication Development Centre (FDC)





The key aim of the FDC is the development of engineering talent in Welsh Schools



KS 2 & 3 "I like science"

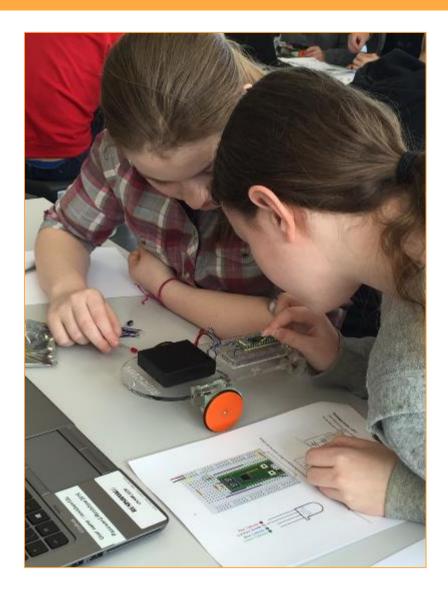






KS4 GCSE "I choose science"







KS5 A Level "I choose engineering"







Other outreach work with schools

- Career/assembly talks
- Mock interviews at schools
- 3D printing workshops in schools
- Teacher training days
- Careers adviser visits
- University and college visits
- Education open days at the manufacturing site
- Greenpower electric car race day held on site
- "Girls into STEM" days
- Work experience placements



The challenges

Teachers

- difficult to get hold of and build relationships with
- inundated with STEM initiatives so don't know what is the best
- lack of knowledge about careers in engineering
- they move jobs!
- gaps in their knowledge about 21st century engineering
- Outside visits schools reluctant to allow students out
- Parents preconceptions of engineering e.g. dirty/doesn't pay much/ only for boys/engineering industry declining



The results

Education Outreach engagement 2016/17

700+ in Wales

Apprenticeship applications

x3 in 5 years

Graduate applications

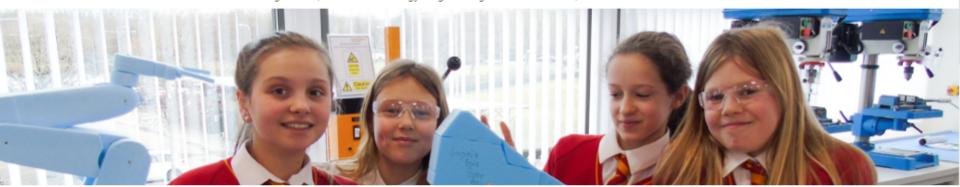
x4 in 5 years



Thank you for listening



Promoting STEM (Science, Technology, Engineering and Mathematics) careers.



Engineering is so important. It's vital to all of us in our everyday lives.

Renishaw's Education outreach team brings these clear and positive messages into schools and colleges in Gloucestershire, Bristol and South-Wales, and to universities throughout the country.

Our proactive education outreach programme is designed to excite, to interest and engage students in a range of engineering activities. Our aim is to provide real insight into the vibrant world of engineering, and careers based on STEM (Science, Technology, Engineering and Mathematics) subjects.

www.renishaw.com/educationoutreach

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