

# Renishaw Education Outreach

## BBC Micro:bit programming 3 hour workshop

The BBC Microbit is the 21st century answer to the 1980's BBC Micro. The Microbit is a pocket-sized computer to encourage pupils to pick up coding anytime, anywhere and can be programmed using visual blocks, flexible text-based programming language, or Python. The workshop aims to get pupils enthusiastic about coding and can be catered to different levels and abilities.

A tour of the manufacturing facility, additive manufacturing (3D printing) labs and a careers talk will end this exciting hands on workshop.

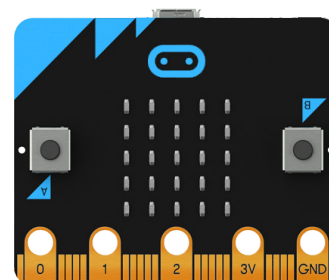
Biscuits and refreshments will be served during the workshop.

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

- Develop coding skills which are highly sought after.
- Learning fundamental computing concepts.
- Use coding skills to overcome everyday problems

### Who should attend?

- Key stage 2 pupils who want to learn about coding
- Key stage 3 pupils with an interest in computing, computer science or software engineering



### Curriculum links

- Use programmable/computer control systems that can create, test, modify and store instructions to control events. (National Curriculum for Wales – Design and Technology Key Stage 2 – Designing)
- Use microprocessors and computer control systems in different products (National Curriculum for Wales – Design and Technology Key Stage 3 – Designing)



**Venue:** Renishaw plc, Fabrication Development Centre, Miskin Business Park, Pontyclun, RCT CF72 8XY

**Time:** 09:15 to 12:15 (times can be changed to suit your school day)

**Cost:** FREE - Just bring enthusiastic young people with an interest in engineering -15 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 that teaching a related subject 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](http://www.renishaw.com) or contact [education@renishaw.com](mailto:education@renishaw.com)



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## Renishaw in Wales

In 2011 the purchase of the 461,000 sq ft former Bosch facility and associated land near Miskin, South Wales gave Renishaw the space and opportunity it needed to support its growth and development. By the end of 2015, Renishaw had invested nearly £40m in the site acquisition and refurbishment and in the purchase of plant and machinery. It has already created over 250 new jobs and has well developed plans for the site to support research and development and manufacturing in new areas of its business. The co-location of research and development, design, and manufacturing functions at Miskin provides many advantages. Better communication, design for manufacture, shorter product development times and more responsive design and test capabilities can be significant advantages for research and development projects.

Building on and creating new, strong relationships with research and educational organisations in Wales, Renishaw is leveraging its skills and experience in metrology and additive manufacturing to create exciting new developments in healthcare. The proximity of the Miskin site to good transport links and a wide variety of potential collaboration partners in life sciences, with support from national and local government, will give Renishaw the opportunity to create new centres of expertise and new jobs. Renishaw has opened a Healthcare Centre of Excellence at its Miskin site to provide manufacturing capacity for medical parts as well as facilities for training, demonstrations and research.



## Highlights to date and future plans

- £40m outlay on site acquisition, refurbishment and production plant and machinery by the end of 2015
- Over 300 employees on site with open vacancies for a range of manufacturing and research roles
- Assembly of the only UK manufactured metal additive manufacturing (3D printing) machines
- Electronics assembly including latest surface mount technology for PCB assembly
- Metal part machining using the latest CNC (computer numerically controlled) machine tools and robot technology
- Planning application approved for development at the Renishaw Miskin site. The planned facilities provide additional capacity for Renishaw and for other businesses to establish operations at Miskin, providing many more employment opportunities

**For more information, visit [www.renishaw.com](http://www.renishaw.com) or contact Simon Biggs by phone (01443 221727) or email ([simon.biggs@renishaw.com](mailto:simon.biggs@renishaw.com))**



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