Job Title: Manufacturing Electronics Test Engineer Apprentice – Level 6

Qualification: Level 6 Manufacturing Electronics Test Engineer

Location: Gloucestershire (Wotton-under-Edge, Woodchester)

Learning Provider: Gloucester College and University of the West of England (UWE)

Duration: 5 years

Salary: £18,300

What is a Manufacturing Electronics Test Engineer Apprentice?

A Manufacturing Electronics Test Engineer is a member of Renishaw's Manufacturing Services Division. Their role is to apply their knowledge of electronics, software, systems integration and manufacturing test techniques to create automated test solutions to verify electronics assemblies within Renishaw's manufacturing operations. This apprenticeship combines college study and office/ factory-based work over a five-year period leading to a degree qualification. Successful apprentices will be able to use their work experience to undertake an Electronics Test Engineer role immediately after qualification.

Where will I be working?

This role is based at our manufacturing and new product development sites in Gloucestershire and will also involve visits to our Miskin site near Cardiff. **You will need the ability to travel independently to college and work.**

What will I do?

In Year 1, your time will be split between studying for a degree and working within Renishaw, gaining valuable experience within a manufacturing test environment. You will also receive training in the core practical skills needed for the role.

Years 2 to 5 will be made up of a series of placements deigned to develop your understanding and skills in a variety of areas and to enable you to build the networks that you will need for success in your position after the scheme.

Areas covered include:

- Automated production processes used to produce electronic assemblies and the types of faults these can generate / which need to be found on test.
- Electronic fault-finding techniques and skills.
- Electronic assembly prototyping, hands-on practical experience and understanding of the in-house services that you may call on later.
- Test process development fundamentals across the range of automated test platforms that Renishaw employs within its manufacturing operations.
- Structured software development for the test platforms.
- Electronic schematic interpretation.
- Printed circuit board (PCB) layout and hardware design fundamentals needed for interfacing with the test platforms.

As you progress to achieve your degree, the work placements will compliment your growing theoretical knowledge with practical application & consolidation. You will be guided and mentored by engineers who are experts in their field.

What qualifications will I achieve?

You will study towards a BEng (Hons) in Electronic and Computer Engineering, accredited by the University of the West of England (UWE) on a day release scheme. The course is initially delivered by Gloucester College with the final 2 years delivered directly by UWE.

The degree course builds up from foundations to the final BEng (Hons) degree and includes class based learning and practical laboratory activities delivered at both Gloucester College and UWE. This allows each apprentice to develop their knowledge year on year, gaining accredited qualifications to achieve milestones for the apprenticeship.

There will be regular reviews with the education teams from Gloucester College and UWE, together with support from Renishaw to ensure both academic and apprenticeship qualifications are successfully met.

What skills and qualifications do I need?

Applicants must have:

- Three A-Levels at BBB, or the equivalent of 120 UCAS points, including Maths (at grade B or higher), one other science subject and one other STEM subject
- OR a Level 3 Engineering Technician Apprenticeship at Distinction level
- Other qualifications will be considered if they meet the points level requirement
- Preference will be given to applicants who can demonstrate practical exposure to electronics or software engineering
- A current or recent job, this does not need to be relevant to engineering and can be a paper round or Saturday job, as this demonstrates maturity, responsibility, and independence
- Relevant work experience done through school or college would be beneficial although is not essential
- Good written and excellent communication skills
- A genuine desire to become an exceptional engineer
- A full UK driving licence, as travel to college and other sites will be required