Job Title: Embedded Electronic Engineering Apprentice (Level 6)

Qualification: Level 6 Embedded Electronic Systems Design and Development Engineer

Location: Wotton-under-Edge, Gloucestershire

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

Duration: 5 years

Salary: £18,300

What is an Embedded Electronic Engineering Apprentice?

The role of the Embedded Electronic Engineer is to apply their knowledge of electronics and of embedded software to the design and development of electronic circuits, devices and systems. This apprenticeship combines college study and office/ lab-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 Design Engineer role immediately after qualification.

Where will I be working?

This role is based at our New Mills site near Wotton-under-Edge, Gloucestershire. **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, and allowing you to apply your theoretical knowledge to practical projects. During this period, you will receive in-house training to give you the fundamental knowledge and skills required for your apprenticeship. You will be supervised by engineers who are experts in their fields.

The training is designed to allow you to continually build on the skills that are being taught which range from electronic schematic design, printed circuit board (PCB) layout, structured programming for embedded systems (software and firmware), mathematical modelling, design and testing methodology.

Years 2 and 3 will include dedicated placements within the electronics groups in various divisions across Renishaw, allowing you to work on real projects and products. Studying continues with the degree on a part time basis, allowing your theoretical knowledge to continue to grow.

Years 4 and 5 will allow you to begin specialising and develop your skills in a specific field of your knowledge within the company, finally in Year 5 finishing your studies with a BEng (Hons), completing your apprenticeship through an End Point Assessment (EPA) and taking up an appointment within a Renishaw division.

What qualification 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?

- Three A levels which must include Maths and can include two of the following subjects: Computing/Computer Science; Design and Technology; Electronics; Engineering; ICT; Further Maths
- Applicants must have the minimum of 120 UCAS points (in the new tariff system) which equates to BBB. Applicants must have at least a C in Maths, although a B is preferred. Please provide predicted grades if you are still studying
- Other qualifications will be considered if they meet the points level requirement.
- Preference will be given to applicants who can demonstrate practical exposure to programming and electronics
- 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