Embedded Electronic Systems Design and Development Engineer Degree Apprenticeship

This apprenticeship Standard is suitable for an engineer who applies their knowledge of electronics and embedded software to the design of circuits or devices that provide a useful function, that are capable of being manufactured at a competitive cost, and that are reliable and safe. This involves the use of the engineer's knowledge of electronics and electronic principles, married to an expertise in the end use of the final product. This apprenticeship is suitable for engineers working in a wide range of sectors to rely on embedded systems design including telecommunications, information and computer technology, defence, energy (including renewables), transport and consumer electronics.

Delivery model and duration:Part time study with the first 3 years at Gloucestershire College Cheltenham Campus, the remaining two years at UWE BristolDuration: 5 years

Qualification: BEng (Hons) Electronic and Computer Engineering Degree

Ideal for:• Hardware Engineer• Software Engineer• Systems Engineer• Design Engineer

The apprenticeship will cover the following core areas:• Professional engineering skills• Electrical circuit theory• Analogue and digital design techniques• Fundamentals of structured software design• Structured programming for embedded software• Mathematical modelling techniques for circuit design• Embedded software development• Thermal management

Benefits for learners:• Flexible study towards a higher education qualification• Improve your career prospects• Gain high level technical knowledge and practical experience• Progress your career quickly

Entry Requirements

5 GCSEs at grade 9 - 4 or A* - C including maths, English and science, technology or engineering related subjects and A Levels at grade C or above in both a mathematical based subject and a science, tech, engineering or additional mathematics related subject, or 90+ credits in an Engineering BTEC. Learners must have the equivalent to 112 UCAS points.

What's Next

Completers may want to progress to Masters qualification – Level 7

Apply now at www.gloscol.ac.uk or call 0345 155 2020

Your Options

	Start Date	End Date	Course Level
Apprenticeship for Embedded Electronic Systems & Development Engineer (Part **Time**)			
Cheltenham	TBC	TBC	6