

Graduate Apprenticeship

Engineering:

Design and Manufacture

BEng (Hons)



BEng (Hons) Engineering: Design and Manufacture

This apprenticeship supplies apprentices with expertise in design and manufacturing processes and the knowledge and understanding required to help their organisations thrive in the sector. In addition, apprentices will gain the skills to apply this knowledge to the requirements of customers and provide suitable and sustainable solutions to real-world problems.

Apprenticeship Highlights

The apprenticeship provides apprentices with both the theory and practice of underpinning engineering principles and concepts surrounding design and manufacture, including materials science, dynamics, stress and failure analysis and mathematics, while ensuring the formation of roots in project management and product development are established and grown. Apprentices will gain knowledge of materials selection, manufacturing processes for a wide range of materials, as well as British and European Standards. Various industry relevant softwares are also introduced and applied throughout the apprenticeship. Apprentices will gain an appreciation of customer needs and how the design process can meet those needs, including applying this knowledge in the later stages to integrated work-based projects.

Career Enhancement

A Graduate Apprenticeship synchronises theoretical learning with practical experience. Graduate Apprenticeships offer benefits to both the employee and the employer, meeting the long-term development needs of both the business and the apprentice.

Employees exiting with a Graduate Apprenticeship degree qualification could enhance their careers in a wide range of possible job roles including:

- Design Engineering
- Production and Manufacturing
- Systems Engineering
- Project Management
- Consultancy
- Quality Assurance
- Research and Development

Entry Requirements

All applicants must be employed in a role related to the course of study, must have the right to live and work in Scotland and be working in Scotland.

- **SQA Higher: BBBB to include Maths and either Engineering Science, Physics or Technological Studies.**

English at National 5 grade C or above is required if not held at Higher.

We welcome applications from those with equivalent qualifications or work experience which equip them with an equivalent starting point for the apprenticeship.

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