

Graduate Apprenticeship



University of
Strathclyde
Engineering

BEng (Hons) Engineering: Design and Manufacture Graduate Apprenticeship

“Our collaborative partnership with Strathclyde University is both a no-brainer, and one founded in mutual respect. Strathclyde’s reputation as the go-to Scottish University for Engineering, alongside having strong links with Scottish Industry, ensures young talent is best equipped to strengthen our business and ultimately play an invaluable role in key projects, our strategy and future growth. As a founding partner of the Strathclyde Graduate Apprentice programme, we are proud and excited to continue building on this relationship and developing the future talent of the Engineering faculty.”

COLIN SCOULLER, THALES GROUP



SCAN QR CODE

Strathclyde's triple accredited BEng (Hons) Engineering; Design and Manufacture Graduate Apprenticeship programme, designed in partnership with engineering employers, will develop apprentices' knowledge, skills, competencies and professional behaviours.

The Graduate Apprenticeship has been designed to develop professionally qualified engineers eligible to apply for professional body registration as an Incorporated Engineer.

Apprentices will acquire underpinning knowledge and understanding via a blended and online learning delivery model with core engineering competencies (UK Standards for Professional Engineering Competence, IEng) being developed through an integrated work based learning curriculum.

Facilitated by world class academics, the on-campus delivery will allow Graduate Apprentices to develop skills in our state-of-the-art facilities including labs and the UK's only Digital Design suite.

Employer Benefits

- Enables employers to fast track the time required for graduates to reach optimum productivity
- Fully funded degree places with the opportunity to progress to Masters or Doctorate level
- Designed for a diverse and geographical remote learner population whilst offering an individualised learning experience including a pre-entry formative diagnostic mathematics test.
- Anywhere, anytime learning via our online Virtual Learning Environment (VLE), Myplace, complemented by monthly on-campus teaching.

Why Strathclyde:

- Our one day a month on campus model ensures minimum time out of the business.
- Dedicated support from a Learning Advisor, who has come from the engineering industry.
- Programmes are designed and continually developed with industry at the heart of them.
- Dedicated delivery team who listen, understand and work with industrial partners to offer a fully integrated, contextualised BEng (Hons) degree delivered via an online and blended work based learning mode.

Accreditation

The Graduate Apprenticeship Engineering: Design and Manufacture degree course is approved by the [Institution of Mechanical Engineers](#), the [Institution of Engineering and Technology](#) and [Institution of Engineering Designers](#).

Students are encouraged to take up membership of these professional organisations.

Course Structure & Content

The Engineering: Design & Manufacture (EDM) BEng (Hons) is a four-year degree programme with flexibility in curriculum choices in Years 3 and 4.

Year 1		
Term 1	Term 2	Term 3
Design and Production 1	Mechanical Engineering Principles 1	Electronic and Electrical Engineering Systems 1
30 credits (Level 1) Class includes 10 credits achieved via work based learning	30 credits (Level 1) Class includes 10 credits achieved via work based learning	30 credits (Level 1) Class includes 10 credits achieved via work based learning
Mathematics and Numerical Tools - 30 credit (Level 1)		

Year 2		
Term 1	Term 2	Term 3
Design and Production 2	Mechanical Engineering Principles 2	Electronic and Electrical Engineering Systems 2
30 credits (Level 2) Class includes 10 credits achieved via work based learning	30 credits (Level 2) Class includes 10 credits achieved via work based learning	30 credits (Level 2) Class includes 10 credits achieved via work based learning
Mathematics and Numerical Tools 2 - 30 credit (Level 2)		



Year 3		
A total of 60 credits must be studied each year from classes listed below in parallel with a 60 credits work based Engineering Design and Manufacture Project		
Term 1	Term 2	Term 3
Structure and Properties of Engineering Materials	Advanced Engineering Production Techniques Principals and Applications of Non Destructive Evaluation.	Digital Electronics & Embedded Systems
20 credits (Level 3)	20 credits (Level 3)	20 credits (Level 3)
Sensors, Signals, Systems & Instrumentation	Key Power Systems Concepts & Foundations	Design for X
20 credits (Level 4)	20 credits (Level 3)	20 credits (Level 4)
Engineering Design and Manufacture Project A - 60 credits (Level 3)		

Year 4		
A total of 60 credits must be studied each year from classes listed below in parallel with a 60 credits work based Engineering Design and Manufacture Project		
Term 1	Term 2	Term 3
Sensors, Signals, Systems & Instrumentation	Robotics & Control	Design for X
20 credits (Level 4)	20 credits (Level 4)	20 credits (Level 4)
Production Operations and Quality Management	Power System Operation, Control & Protection	Energy Fundamentals & Applications
20 credits (Level 4)	20 credits (Level 4)	20 credits (Level 4)
Engineering Design and Manufacture Project B - 60 credits (Level 4)		

Entry Criteria

We have a flexible admissions approach and applications will be considered on an individual basis with input from employers. The programme has been designed to meet the needs of learners with a range of vocational and academic qualifications, including the potential for progression from a Foundation Apprenticeship.

Typically, applicants will have 4 Highers (minimum B grades) including Mathematics or equivalent qualifications and experience. Applicants without the required academic qualifications but with work experience will be considered as applications are reviewed on their own merit.

Graduate Apprenticeships are funded by Scottish Funding Council
www.sfc.ac.uk



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Comhairle Maoinachaidh na h-Alba



University of
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Glasgow



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