Graduate Apprenticeship

University of Strathclyde Engineering

BEng (Hons) Civil Engineering Graduate Apprenticeship



"University of Strathclyde suits the needs of both the learner and the employer by delivering programmes that are carefully planned and designed, in partnership with industry. By working in collaboration with Strathclyde, Amey synchronises the apprentices theoretical learning alongside the practical application, which can help increase understanding and retention".

SHONA HAINEY, AMEY CONSULTING

SCAN QR CODE

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

Apprentices will acquire underpinning knowledge and understanding of Civil Engineering, via our 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 apprentices to develop skills in our state-of-the-art facilities including labs for the demonstration of geomechanics, advanced materials science and environmental science.

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.

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.
- Accredited by the Joint Board of Moderators, having fully met the academic base for IEng and partially meeting the academic base for CEng by the ICE, IStructE, PWI, IHE and CIHT.

Course Structure & Content

The Civil Engineering BEng (Hons) is a four-year degree programme with flexibility in Years 3 and 4.

Year 1 - 120 Credits	
Mathematics & Numerical Tools 1	
Fundamental mathematical principles	30 Credits
Applied mathematics tools (Excel and MATLAB)	
Basic Mechanics & Materials	
Basic Mechanics	20 Credits
Stress & Strain	
Construction Materials	
Structural Analysis	
Basic mechanics, free body diagrams, equilibria and stability	20 Credits
Construction material and technologies	
Earthworks	
Soils & Water 1	
Soil Classification	20 Credits
Hydrostatics	
Work Based Learning	
Work Based Learning	30 Credits

Year 2 - 120 Credits	
Mathematics & Numerical Tools 2	
Development of further mathematical principles	30 Credits
More advanced mathematics & analysis tools	
Civil Engineering Practice	
Land surveying & setting out	20 Credits
Applications of design process	
Soils & Water 2	
Basic Chemistry	20 Credits
Hydraulics	
Structural Analysis 2	
Torsion and deflection of beams	20 Credits
Mohr Circle	
Indeterminate structures	
Work Based Learning	
Work Based Learning	30 Credits

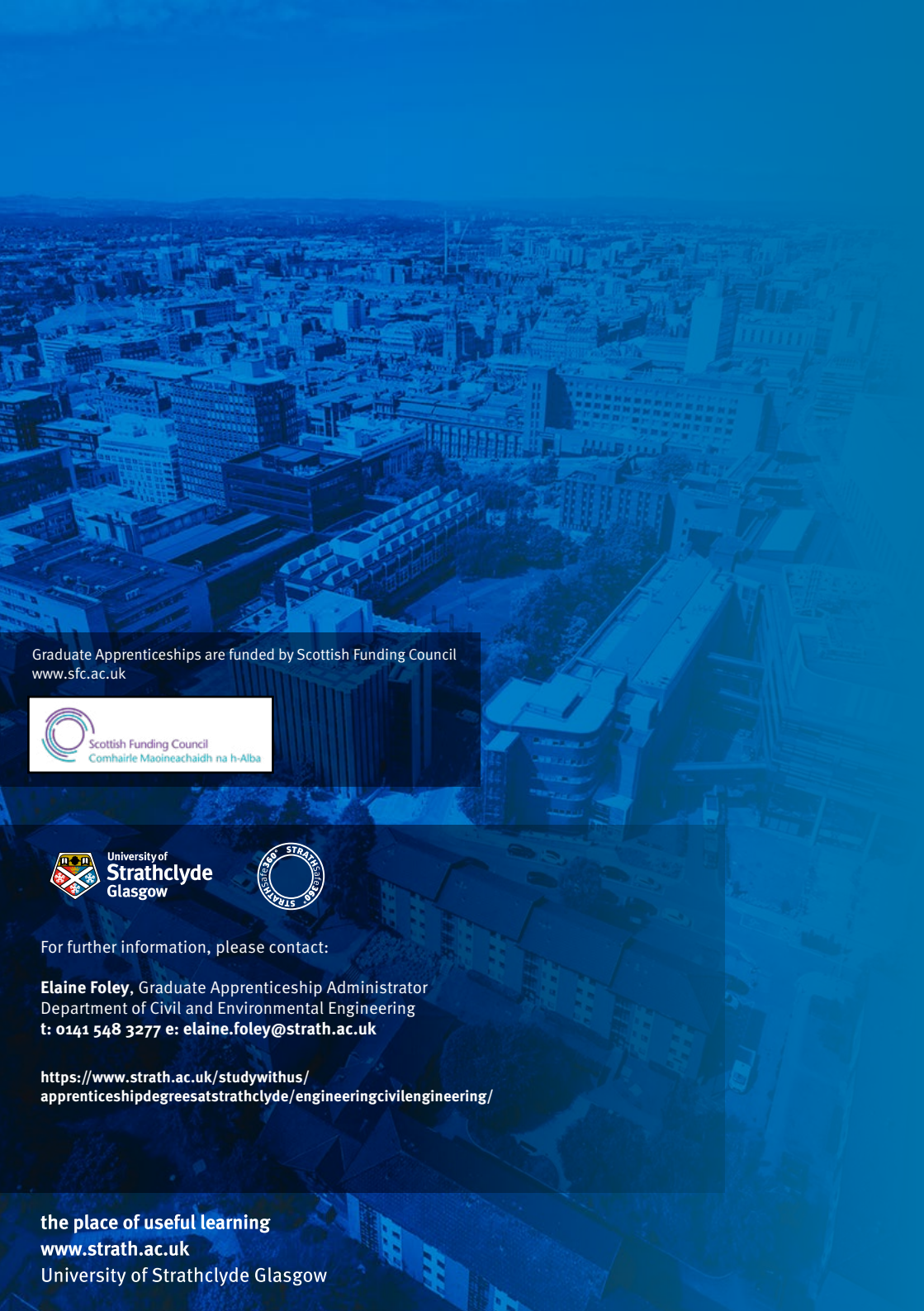
Years 3 – 120 Credits Year 4 – 120 Credits	
Work Based Learning (Skills and evidence, reflective learning and reporting)	60 Credits
Core Civil Engineering subjects: Structures, Geotechnical Engineering, Transport and Water	60 Credits



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 Maths or college/university qualifications.



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

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Comhairle Maoineachaidh na h-Alba

University of Strathclyde Glasgow

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https://www.strath.ac.uk/studywithus/apprenticeshipdegreesatstrathclyde/engineeringcivilengineering/

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