Graduate Apprenticeships at University of Dundee

BEng (Hons) Civil Engineering with Industrial Experience

Supporting employers to develop the skills of their workforce
Deliver tangible benefits to your business through Graduate Apprenticeships at the University of Dundee. Through a blend of academic and practical learning our programme can help to increase productivity, develop and retain talent, improve service delivery, and engage staff in their own professional development.

Graduate Apprenticeships are fully funded by Skills Development Scotland.

Programme overview

Civil Engineering Graduate Apprentices learn to:

- Solve civil engineering problems.
- Understand construction methods and structural and geotechnical design.
- Analyse and solve solutions to civil engineering problems associated with structural and geotechnical design and explain construction methods.
- Analyse emerging technologies and how these can be applied to civil engineering problems.
- Manage learning and take responsibility for organising work to meet deadlines.
- Be able to work as a team and analyse work produced.
- Study project management, safety and sustainable construction methodologies.
- Be able to work as a team and analyse work produced.

Work-based learning

Work-based learning is integrated into the curriculum and assessed as a stand-alone component each year as apprentices build a body of work demonstrating their growing competence as engineers. These types of assessment recognise the diversity of civil engineering, enabling apprentices to reflectively analyse their areas of work which are often beyond the scope of the typical academic curriculum. The work-based learning assessments are also more inclusive, enabling apprentices to be recognised for their broader engineering abilities.

Eligibility

The Graduate Apprentice must:

- Be a resident in Scotland at the start of their programme.
- Work in Scotland.
- Not have a qualification at the same level in the same subject.
- Meet the University’s entry requirements.

University-based learning

Teaching takes place one day a week in the University over 42 weeks a year. There is a two week break at both Christmas and Easter and a six week break in the summer.

Learning outcomes

Regular meetings with our industrial advisory board will review content in line with both employer and apprentice needs.

Year 1

- Engineering Mathematics
- Structural Behaviour & Mechanics
- Professional Engineering Practice
- Health & Safety
- Engineering Materials
- Surveying
- Engineering Design Project

Year 2

- Engineering Mathematics
- Structural Behaviour & Design
- Fluid Mechanics
- Geotechnics
- Highway Engineering
- Civil Engineering Software
- Engineering Design Project

Year 3

- Conceptual Design Project
- Engineering Mathematics
- Fluid Mechanics & Hydraulics
- Structural Analysis
- Designing Steel & Concrete Structures
- Engineering Materials and Environment
- Soil Mechanics

Year 4

- Individual Research Project
- Geo-environmental Engineering
- Structural Design
- Water Resources & Treatment
- Concrete Durability & Repair Technology

Entry requirements

- A Modern Apprenticeship in a relevant area and Higher maths and a science or engineering subject at Higher level (physics is preferred) or
- A Foundation Apprenticeship in a relevant area and Higher maths and a science or engineering subject at Higher level (physics is preferred) or
- BBBB at Higher including Higher maths and a science or engineering subject at Higher level (physics is preferred) or
- Equivalent.

If a candidate does not have any formal qualifications, they can:

a) Go through a recognition of prior learning interview and/or
b) Enter through Discover Learning at Dundee uod.ac.uk/discoverlearnings

Direct entry to year 2 may also be available for qualified candidates, please contact us to discuss.

If you are an employer, we will work closely with you on the admission process. For example, if you are hiring a new employee as a Graduate Apprentice, we will happily discuss their qualifications prior to you hiring them so that we can check they are eligible to apply.

Simply email: ga@dundee.ac.uk

“The Graduate Apprenticeships are the best way to study. It puts you in a position where you are ahead of the standard graduate with four years of industry experience by the time you finish with an equivalent degree.”

Kyle Baptie
Civil Engineering Graduate Apprentice

uod.ac.uk/graduate-apprenticeships
→ We are one of the UK’s top 30 universities

→ We have been given a Gold award – the highest possible rating –
   in the 2017 Teaching Excellence Framework (TEF).

Find out more
Email: ga@dundee.ac.uk
Phone: 01382 384787
Visit our website: uod.ac.uk/graduate-apprenticeships