Graduate Apprenticeships at University of Dundee

BEng (Hons) Engineering, Design and Manufacturing 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**

Engineering, Design and Manufacturing Graduate Apprentices learn to:

- Integrate engineering principles, materials and technology selection into structured design methodologies based on their application to real world challenges.
- Understand the engineering environment, including strategy development, leadership and business operations management knowledge, to play a management role in engineering project planning and delivery.
- Work closely and collaboratively with other employees, stakeholders and customers in a contemporary engineering organisation.

**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.

**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 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.

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“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

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**Learning outcomes**

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

**Year 1**
- Mathematics for Engineers I
- Engineering Practice
- Engineering Materials I
- Manufacturing Engineering
- Product Design
- Business Strategy & Management

**Year 2**
- Mathematics for Engineers II
- Research Skills
- Computer Aided Design Software Applications
- Physical Computing
- Design Engineering
- Business Finance & Accounting

**Year 3**
- Mathematics for Engineers III
- Manufacturing with Materials
- Industrial Engineering
- Advanced Computer Aided Design & Analysis
- Electronic Design Systems
- Manufacturing Operations Management

**Year 4 – Honours Project Year**
- Project Risk Assessment
- Advanced Materials and Engineering Design
- Global Manufacturing Strategy
- Project Management
- Industrial Research Project

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**Entry requirements**

- A Modern Apprenticeship in a relevant area and Higher maths and a science or engineering higher (physics is preferred) or
- A Foundation Apprenticeship in a relevant area and Higher maths and a science or engineering higher (physics is preferred) or
- BBBB at Higher including maths and a science or engineering Higher (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](http://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

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Kyle Baptie
Civil Engineering Graduate Apprentice
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