Please contact us if you would like a chat about our current higher and degree apprenticeships or to discuss developing new programmes with us.

T: 0191 515 2499
apprenticeships@sunderland.ac.uk
sunderland.ac.uk/apprenticeships

If you're looking to start an apprenticeship, it is the employer that will advertise this opportunity, not the University. To search for apprenticeships offered by employers in your area go to: gov.uk/apply-apprenticeship
Build your A-Team with Higher and Degree Apprenticeships

BEng (Hons) Design Engineering Practice
BEng (Hons) Electronic and Electrical Engineering Practice
BEng (Hons) Manufacturing Engineering Practice
Higher and Degree Apprenticeships at a glance

Higher and degree apprenticeships are suitable for both new and existing staff.

Apprentices are employees who will spend the majority of their time in the workplace, supported by dedicated study time with the University.

The programmes can be tailored to meet the needs of employers.

Larger organisations can use their apprenticeship levy and government top-up to pay for tuition and professional fees of higher and degree apprenticeships.

For smaller employers, the government pays 95%, with the remainder co-invested by the business.

“It works so well because a lot of the things I’m learning I can take back with me to Caterpillar and start applying them straight away, so the company benefits. Equally, I can bring into university the ideas and work practices I’m using each day in my job. It’s a win-win situation.”

Thomas Gilling
Degree Apprentice at Caterpillar (pictured)

“Caterpillar Peterlee have had a long-standing partnership with the University of Sunderland and we are delighted to now be working with the Faculty of Technology where two of our employees have enrolled to study a BEng Engineering Practice Degree wApprenticeship.

“The support received by the University is consistently outstanding and we look forward to continuing to work with the University of Sunderland in supporting our employee’s development through higher education.”

Greg Robson
Learning and Development Manager at Caterpillar
Transform your business performance and build your A-Team with a new government initiative which brings together the best of higher education and vocational training. Higher and degree apprenticeships are a cost-effective solution for all employers to acquire the latest higher-level industry skills and knowledge. The programmes integrate academic study with practical application in the workplace and can lead to a degree and professional accreditation or membership.

Higher and degree apprenticeships are suitable for both new staff and your current workforce, enabling you to attract fresh talent and upskill, motivate and retain existing employees. Apprentices are employees and spend the majority of their time in the workplace, supported by dedicated study time with the University.

Larger organisations can use their apprenticeship levy and the government top-up to pay for tuition and professional fees of approved apprenticeship standards such as our higher and degree apprenticeship programmes.

For smaller employers that do not incur the apprenticeship levy, the government pays 95%, with the remainder co-invested by the business. Further incentives are available for smaller businesses and organisations that employ younger apprentices or those who have formerly been in care or who have an Education and Health Care plan.
Why work with the University of Sunderland?

Internationally recognised for the quality of our teaching and research, the University of Sunderland has been providing higher education since 1901. We’re an ambitious university with a global reach – as well as our two campuses in Sunderland, we also have over 4,000 students studying at sites adjacent to Canary Wharf, London and in Central district, Hong Kong. A further 6,000 students study in 17 countries as part of transnational partnerships.

We provide tailored solutions for employers to acquire the latest higher-level industry skills using the Apprenticeship Levy and government funding.

- Support from a dedicated team focused on your needs.
- Access to world-class facilities and expertise.
- Wide-ranging offer which employers can shape.
- Extensive experience of helping companies to improve their business performance.
- Track record of successfully delivering higher and degree apprenticeships with business already.
- Exceptional support for your apprentices as they progress through their studies.
- Recent investment of over £1 million in state-of-the-art engineering technology and equipment.

“Thanks to the support and knowledge that I received throughout my degree course at the University of Sunderland, alongside work-based learning, I have been able to get a head start in my career as an engineer. Being able to apply the theoretical knowledge learned through studies to a practical working environment has greatly helped in developing my understanding of the subject.”

Aaron Walsh (Dyer Engineering Ltd.)
Programme overview

The Engineering Degree Apprenticeship suite consists of three pathways, Design Engineering Practice, Electronic and Electrical Engineering Practice and Manufacturing Engineering Practice.

The suite has been developed to align with the requirements for Engineering Council Registration as Incorporated Engineer meaning that it will provide graduates with the technical and professional attributes needed to apply, manage and maintain both current and emerging technologies with an understanding of the business context of Engineering.

Benefits for employers

- The programmes have been developed in conjunction with industry stakeholders and key employers including large multinational manufacturing companies and SMEs across the region.
- The programmes develop scientific and mathematical principles that equip graduates with the understanding required to operate effectively and efficiently as senior engineers and managers. They will be able to apply and adapt a range of validation, analysis and interpretation tools in order to solve engineering problems using new or existing technologies, through creativity, change and innovation.
- Technical knowledge and analytical skills are contextualised with manufacturing applications, and students develop commercial awareness and practice applying their knowledge and skills to business advantage. Project work develops the ability to scope, plan, manage and deliver real engineering projects.

“After I completed my HND, the degree apprenticeship course was suggested to me. As I was able to join the course based on my current qualifications, it was a great way for me to move up to a degree. The course was a challenge but helpful lecturers guided my learning. Being able to stay at work while completing the course was perfect and the extra workload didn’t consume all of my free time. I would definitely recommend the course to others.”

Ben Keast (Union Electric Steel UK Ltd)
Programme structure

The programme is delivered using a blended learning approach by experienced tutors using lectures, seminars, coaching, group work, computer-based learning and independent study.

Our apprentices use PCs, Macs, commercial games consoles and mobile devices including their own phones as well as appropriate technologies in the workplace. We have a dedicated Learning Lab for interactive group work scenarios.

There is a strong element of work-based learning and project work. We’ll work closely with you to ensure that modules are relevant to your business and that there are flexible study arrangements in place to fit with work commitments. Apprentices complete a range of coursework, portfolio and practical assessments designed to test the necessary attributes for a successful digital and technology solutions graduate.

<table>
<thead>
<tr>
<th>Apprenticeship Standard</th>
<th>Manufacturing Engineer</th>
<th>Product Design and Development Engineer</th>
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<tbody>
<tr>
<td><strong>Year 1 (national level 4)</strong></td>
<td>Engineering Mathematics and Statistics</td>
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<tr>
<td>Fundamental Knowledge</td>
<td>Electrical and Mechanical Principles</td>
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<tr>
<td>Understanding the application of industry standard skills and enhancing knowledge relevant to the programme(s)</td>
<td>Materials and Manufacturing Principles</td>
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<td></td>
<td>Design Principles</td>
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<td></td>
<td>Instrumentation and Data Analysis</td>
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<td>Introductory Project</td>
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<tr>
<td><strong>Year 2 (national level 5)</strong></td>
<td>Manufacturing Process Innovation</td>
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<tr>
<td>Applications to Systems and Processes</td>
<td>Industrial Automation</td>
<td>Mechanical Systems</td>
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<tr>
<td>Understanding how components and practices integrate to form Systems and Processes, with Mathematical and Analytical Skills embedded throughout</td>
<td>Electrical and Electronic Systems</td>
<td>Lean Principles</td>
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<td></td>
<td></td>
<td>Digital Design Processes</td>
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<td></td>
<td>Personal and Professional Skills 1</td>
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<td></td>
<td>Group Project</td>
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<tr>
<td><strong>Year 3 (national level 6)</strong></td>
<td>Engineering Enhancement</td>
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<tr>
<td>Applying the principles, technologies and personal attributes of the Fourth Industrial Revolution to improve performance</td>
<td>Industrial Electronic Systems</td>
<td>Design for Manufacturing</td>
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<td></td>
<td>Quality and Reliability Engineering</td>
<td>Product Quality and Validation Engineering</td>
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<td></td>
<td>Personal and Professional Skills 2</td>
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<td></td>
<td>Individual Project</td>
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</table>
Duration
Typically delivered over three years for the full undergraduate degree with apprentices attending one day per week. Advanced entry may be possible to fast track completion subject to entry qualifications.

Location and facilities
The programme is delivered from our Sunderland campus and apprentices have full access to our IT and library resources, support services and Students' Union membership. Furthermore apprentices will have access to a range of advanced engineering facilities which have recently been extensively refurbished.

Entry requirements
Applicants to this degree apprenticeship will have usually gained the equivalent of 112 UCAS tariff points in relevant subject areas or relevant work experiences.

Enrolment
Enrolment is in 2020/21 (although this may be varied to meet the needs of the employer).

Fees and funding
There are different ways for the employer to fund the costs of higher and degree apprenticeships, which may include government levies already paid for by the employer or specific funding opportunities which may be available.

For a discussion around your specific requirements please call 0191 515 2499 or email: apprenticeships@sunderland.ac.uk
This information was correct at the time of publication.