University of Staffordshire

MODERN UNIVERSITY OF THE YEAR

Daily Mail University Guide 2027

ENGINEERING

COURSE GUIDE

Your place of possibility

WELCOME

Higher education is about investing in your future. You'll study for a degree, but you'll leave with so much more. You'll grow as a person, explore new experiences and gain the essential skills for your chosen career.

We offer a technology-led environment, where real-world, immersive learning prepares you for the future, and where our courses are shaped by professional and industry needs.

Join University of Staffordshire and find a great career or gateway to your future. You'll be part of a welcoming community, where amazing things happen. All built around you.

Find where *you* belong

Immersive and real-world learning

Step inside the future of learning, with real-world experiences.

Simulated and immersive spaces where you'll tackle real engineering problems brought to life, in a safe environment.

Gateway to careers

Unleash your entrepreneurial skills as you take on live projects, explore industry collaborations and build contacts with engineering professionals. Our graduates have gone to lots of exciting destinations, including roles with the RAF, supercar specialists McLaren, and engineering firm Mott MacDonald.

Personalised support

No barriers, and no one size fits all. You'll study your way and find your rhythm. With a personalised learning journey, dedicated academic mentor and engineering lecturers who recognise your individual talents and unique needs, you'll achieve real success.

Inclusive community

Find a ready-made community where you can be you. A safe, welcoming and inclusive environment where you'll feel like you belong. You'll be joining an engineering department with a diverse student body and strong support networks.

UNIVERSITY OF THE YEAR

Academic Employability Awards 2026
Graduate Futures Institute

Our graduates are among the most employable in the UK

2ND FOR SOCIAL INCLUSION

The Times and The Sunday Times Good University Guide 2026

You'll be part of a diverse and inclusive community where you can be you

TOP 5 FOR FIRST GENERATION STUDENTS

Daily Mail University Guide 2026

You'll have all the support you need to succeed

YOUR PLACE FOR ENGINEERING

Our engineering graduates have worked on everything from the Mars space rover to luxury Bentley cars. Now you could be following in their footsteps.

Through our well-established and professionally accredited engineering courses, you'll gain exposure to industry while you study. Opportunities include placements with the likes of Boeing, Airbus and the National Grid. You could also be tackling hands-on projects, entering industry competitions and exhibiting at high-profile events.

Whether you're interested in transforming transport and communications, or developing AI-powered robots and fault-detecting drones, you'll gain sought-after skills for the jobs of the future.

You'll learn from our talented engineering team, who bring industry experience and research expertise in areas such as renewable energy systems and smart technologies.

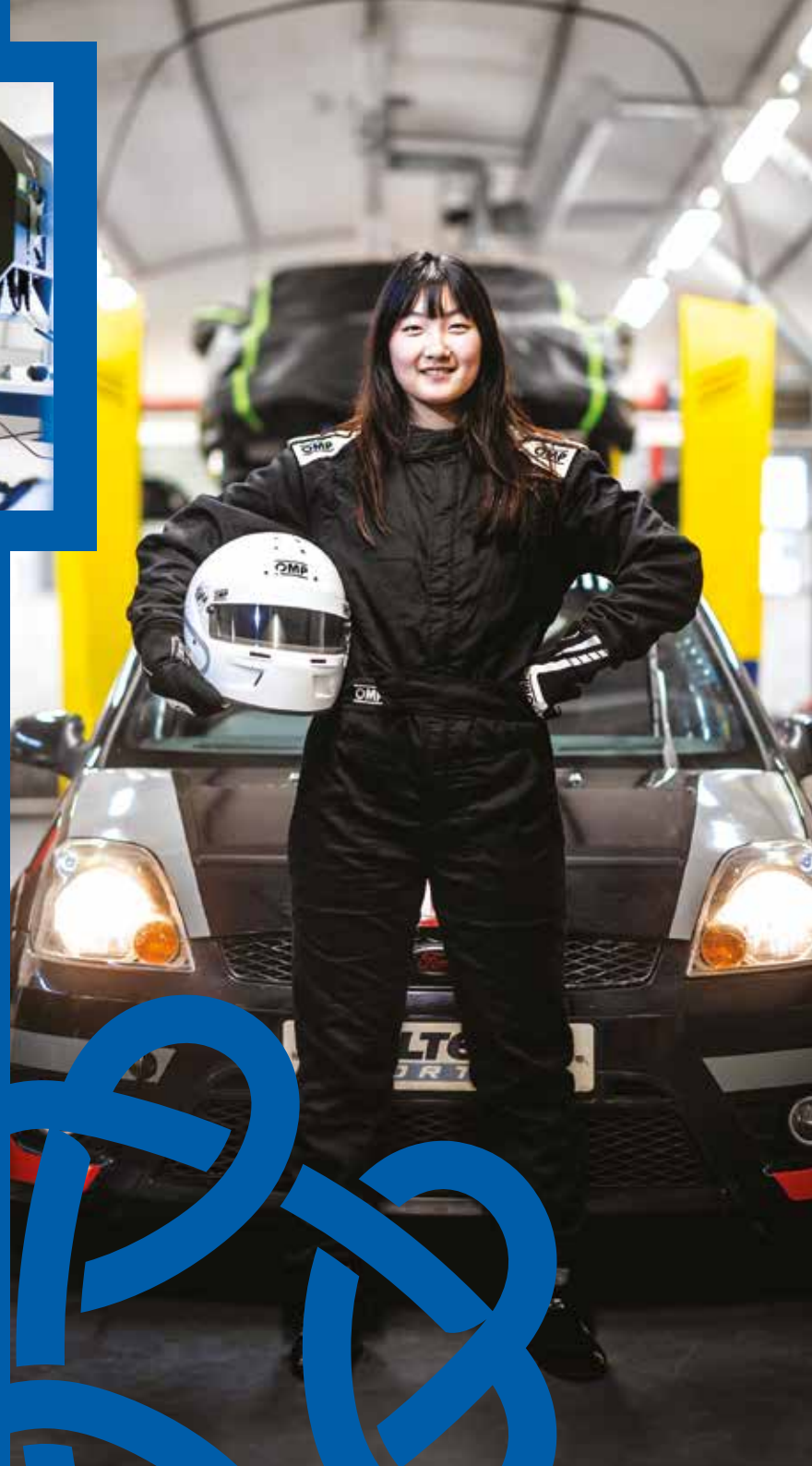
We offer engineering specialisms in:

- Aeronautics
- Electrical and Electronic
- Automotive and Motorsport
- Mechanical
- Construction with Management
- Renewable Energy

Whichever course you study, we'll encourage you to be an innovator and solve real problems. You could be designing prototypes using our 3D scanner, testing aircraft controls with our flight simulator or even racing your own vehicle at Silverstone.

The perfect launchpad for your engineering career.

TAKE A TOUR OF OUR ELECTRICAL ENGINEERING AND TELECOMS LAB



Bringing your place of possibility to life

WHY CHOOSE US

COURSES ACCREDITED BY PROFESSIONAL BODIES

TAUGHT BY EXPERTS WITH INDUSTRY EXPERIENCE

GRADEX: SHOWCASE YOUR WORK TO INDUSTRY AND VIPS

STATE-OF-THE-ART, DEDICATED LABORATORIES AND WORKSHOPS

PLACEMENTS: SPEND A YEAR IN INDUSTRY TO BOOST EXPERIENCE

GET THE OPPORTUNITY TO JOIN OUR AWARD-WINNING FORMULA STUDENT RACING TEAM

STUDENT LIFE

Start building a student life that's completely yours. From your first week, you'll find new passions, unforgettable places and friends who just get you.

Hanley Park - Live music

Regent Theatre, Hanley

Hanley Park

Alton Towers Resort

Peak District

Destination Staffordshire

Quirky shops and eclectic live music. Adventure sports and animal antics. Spectacular Peak District views and fascinating industrial heritage. Staffordshire has it all.

Stoke-on-Trent's latest attraction, the Goods Yard, is right next to our main campus and includes plans for a giant vaulted food hall and entertainment space. You'll also be within walking distance of 60-acre Hanley Park and the city centre's shops, restaurants and Cultural Quarter. Just a few miles away, there's one of the UK's top thrill-seeking spots – Alton Towers Resort. And as one of the cheapest places to live, you can experience more.

Life outside of lectures

Fancy presenting your own radio show? Into niche hobbies? Or what about volunteering? Our Students' Union has more than 70 clubs and societies. There's a community waiting for you, where you'll meet people who share your interests.

You can also get physical with one of our many sports activities, including BUCS league teams and our free Just Play programme.

Artistic impression, imagery is indicative and not literal.

HOME FROM HOME

New for 2026 entry

If you are looking for accommodation, our brand new sustainable Student Village is at the heart of our Stoke-on-Trent campus. With scenic views, social spaces and 24/7 safety, you'll feel secure and supported.

We have a brand new range of en-suite accommodation, including shared flats, town houses and studio flats. There is something for everyone who wants to stay on campus.

Whether you choose to live on or off campus, you'll love hanging out in our brand new Village Hub. You can catch up with friends, stage movie nights, and join other social and wellbeing activities.

The Hub is home to our ResLife team too, who will help you with any of your accommodation requests, and be your central point for assistance.

FIND OUT MORE ABOUT OUR NEW ACCOMMODATION

STUDENT EXPERIENCE

Earn while you learn

Getting a part-time job while you study couldn't be easier. You'll find some great opportunities and high-quality roles through our recruitment agency, Unitemps. You can also work in our Students' Union venues.

Or how about using your creative talents as a student content creator or promoting the university experience as a student ambassador? Brilliant for your CV as well as your finances and providing you with the opportunity to build your employment skills.

Global experiences

Whichever course you choose, you'll have the chance to work, study or volunteer abroad. Life-changing opportunities include helping to conserve sea turtles in Central Asia, working with Sri Lankan communities on textile projects, and delivering sports coaching in Ghana.

We also offer study trips linked to particular courses. Financial support is available. For further details, please visit: **www.staffs.ac.uk/student-life/go-abroad**

Student support

You'll have your own academic mentor to help you stay on track. If you need extra help with research and study skills, there are one-to-one sessions too.

We have lots of activities to promote student mental health and wellbeing as well, including counselling. We'll find the support that's right for you.

For more information visit: **www.staffs.ac.uk/student-support**

FACILITIES

Smart Zone

This is where you'll bring your product ideas and prototypes to life. In the 3D Printing Bureau, you can scan, design and manufacture working components. You'll also have access to AR and VR technologies – where you can blend physical and digital worlds – along with laser cutters and other advanced manufacturing tools. You could be using collaborative robots to learn about automation as well. Through our partnerships with businesses, we also offer opportunities to work on innovation projects.

Thermofluids and Aeronautical Lab

Understanding the interaction between air and objects, particularly at their surfaces, is key to the design and operation of aircraft. Facilities in this laboratory allow practical measurement which is then augmented by computer-based flow simulation and modelling.

Engineering Labs

Work in our professional industry-standard labs, packed with state-of-the-art software and hardware resources that reflect current trends in the development of engineering and technology subjects.

Reverse Engineering Lab

Our Reverse Engineering Laboratory contains 3D scanning capability, additive manufacturing machines featuring PolyJet, FDM, 3DP processes, as well as laser engraving ability.

Automotive Workshop

Our fully equipped Automotive Workshop is where you'll be able to get hands on experience using our industry-standard rolling road and Ricardo WAVE engine simulation, as well as our road, track and race vehicles.

Renewable Energy Lab

Use the latest equipment in our range of renewable energy focused laboratories, including a state-of-the-art Power Systems Lab, that provides real-time testing and development facilities for use in electrical engineering, and other areas such as the Thin Film Lab (work for plastic electronics), our wind tunnel, and our high voltage cage.

Flight simulator

Our flight simulator runs XPlane software and has a professional PFC flight console and radio stack system. It can be used for flying training and practising advanced procedures, as well as learning aircraft systems and their operations.

TAKE A TOUR OF OUR SMART ZONE – THE GATEWAY TO THE NEXT GENERATION TECHNOLOGIES

OUR STUDENTS

“I had a placement with Mercedes AMG HPP – the powertrains for the F1 cars. I’ve been invited back for a graduate scheme for another two years. It’s going to be a lot of hard work and a lot of time put in. But, at the end of the day, if you’re going to do it, you might as well do it at the top of motorsport, which I’m very fortunate to be.”

Joseph Grimer

BEng (Hons) Automotive and Motorsport Engineering graduate and Graduate Design Engineer at Mercedes AMG HPP F1

“Projects, placement opportunities and mentoring by my supervisors have really grown me as a professional, and definitely made me ready to work in the industry. I feel like a different person and it’s all thanks to University of Staffordshire.”

Huda Fatima

BEng (Hons) Electrical and Electronic Engineering graduate and Lead Development Application Engineer at GE Venova (where she completed a placement year)

OUR EXPERT TEAM

Our teaching approach

To help prepare you for the workplace, we'll challenge you to find solutions to real engineering problems. This will test both your analytical and technical skills. You could be investigating how to improve a product or process – or coming up with your own invention. Recent student projects have ranged from creating a robot spider through to designing a wireless measuring device for golfers.

Industry expertise

You'll benefit from our team's real-world experience in different engineering sectors. It means our curriculum is up-to-date, relevant, combines theory and applied practice, and reflects industry needs. Our staff include former aircraft designers, automation experts and design engineers with backgrounds in emerging automotive technologies.

Research expertise

You'll learn from lecturers involved in cutting-edge research in their specialist fields. Our staff are driving advances in areas such as renewable energy systems, wireless sensor networks, autonomous transport, smart healthcare and peer-to-peer energy trading.

As well as passing on their expert knowledge, they will inspire you to conduct your own research projects.

STAFFORDSHIRE RACING

Get into the fast lane with our Formula Student racing team – and compete against engineering students from across the world.

You'll get the chance to design, build and race a single seater car at the famous Silverstone track. It's a thrilling test of engineering acumen, with the judges looking for the speed, handling and reliability of each vehicle.

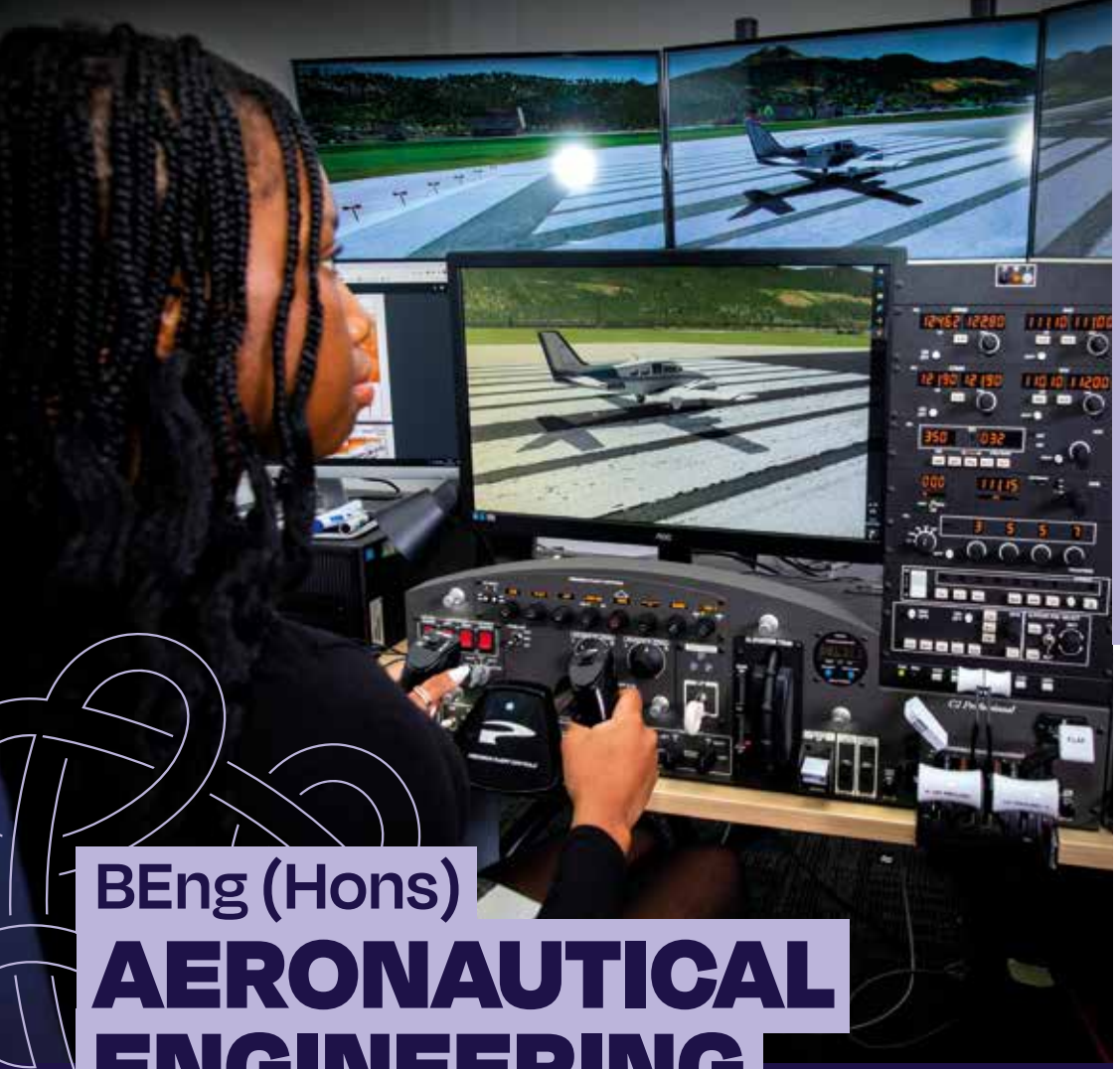
The annual global competition, organised by industry body IMechE, attracts more than 100 teams from across Europe and as far afield as Asia and Australia. University of Staffordshire has a track record of success, featuring in the top five in the world in 2024. In 2025, the team went on to achieve the highest score in the 'internal combustion vehicle' category.

The Formula Student team is open to all engineering students, although places are competitive. It's just one of the ways we connect student talent with amazing opportunities.

OUR COURSES

All courses are delivered at our Stoke-on-Trent campus

Course title	Award	UCAS Code	UCAS Offer	Duration in years
Aeronautical Engineering	BEng (Hons)	H410	104–112	3
Aeronautical Engineering (with placement year)	BEng (Hons)	H411	104–112	4
Aeronautical Engineering (with a foundation year)	BEng (Hons)	H414	48	4
Automotive and Motorsport Engineering	BEng (Hons)	H110	104–112	3
Automotive and Motorsport Engineering (with placement year)	BEng (Hons)	H111	104–112	4
Automotive and Motorsport Engineering (with a foundation year)	BEng (Hons)	H114	48	4
Construction Engineering with Management	BEng (Hons)	H211	104–112	3
Construction Engineering with Management (with placement year)	BEng (Hons)	H213	104–112	4
Construction Engineering with Management (with foundation year)	BEng (Hons)	H212	48	4
Electrical and Electronic Engineering	BEng (Hons)	H629	104–112	3
Electrical and Electronic Engineering (with placement year)	BEng (Hons)	H630	104–112	4
Electrical and Electronic Engineering (with foundation year)	BEng (Hons)	H624	48	4
Mechanical Engineering	BEng (Hons)	H300	104–112	3
Mechanical Engineering (with placement year)	BEng (Hons)	H301	104–112	4
Mechanical Engineering (with foundation year)	BEng (Hons)	H304	48	4
Renewable Energy Engineering	BEng (Hons)	H800	104–112	3
Renewable Energy Engineering (with a placement year)	BEng (Hons)	H801	104–112	4
Renewable Energy Engineering (with a foundation year)	BEng (Hons)	H802	48	4



BEng (Hons) AERONAUTICAL ENGINEERING

Whether you aspire to a career as an airline pilot or as an aeronautical engineer, our course will give you the skills and techniques used by professional practitioners in the aviation sector. We place an emphasis on understanding flight deck design and the relationship between pilot and modern fly-by-wire interfaces as well as the aeronautical engineering fundamentals that aspiring engineers need.

ACCREDITED BY

IET The Institution of Engineering and Technology
Accredited Programme

Re-accreditation with IMechE is currently being sought for intakes from September 2026 onwards, due to curriculum updates to ensure the course's alignment with industry.

94%
OF STUDENTS FELT THAT "ASSESSMENTS HAVE ALLOWED ME TO DEMONSTRATE WHAT I HAVE LEARNED"

NSS data for students graduating 2023–25

82%
TEACHING STAFF HAVE SUPPORTED MY LEARNING WELL

NSS data – discoveruni.gov 2023–25
Final year BEng (Hons) Aeronautical Engineering students

Why choose us…

- Gain hands-on experience in our state-of-the-art labs, which include a computerised wind tunnel and two advanced flight simulators that can simulate Boeing and Airbus systems.
- Learn from a hands-on, practical approach to aviation, applying your skills and knowledge to a real aircraft engineering design brief.
- Choose to apply for a paid placement in industry. Recent placements have been at Airbus, Boeing, Marshall Aerospace, Airbus and Swift Aviation.
- Take part in our annual GradEX graduate exhibition in your final year, showcasing your work to leading industry experts, VIPs and members of the public.
- Visit our local gliding club, access a commercial 737 simulator, and consider applying for the regional RAF University Air Squadron.

What you'll learn…

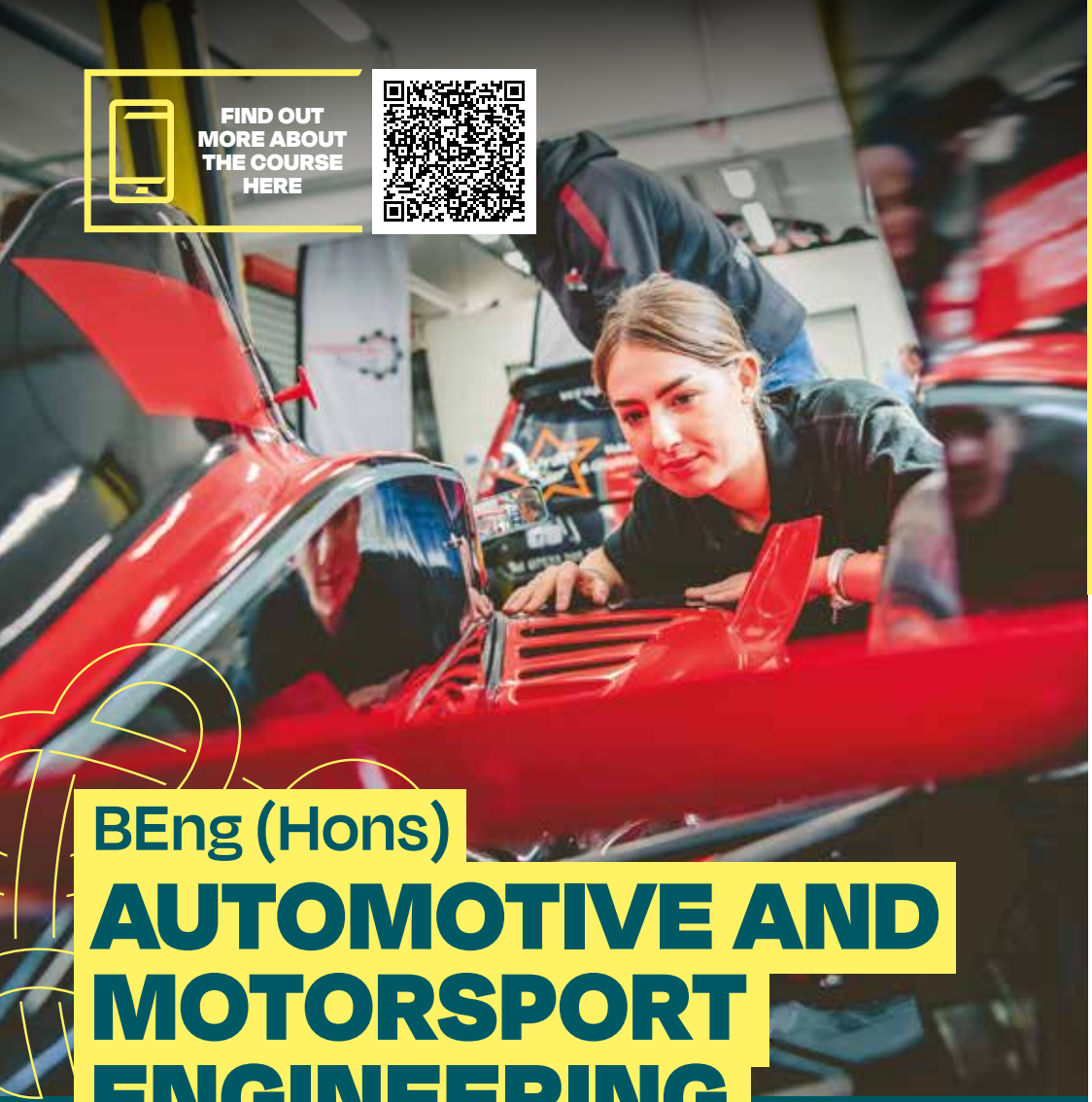
Understand the fundamentals of mechanical, thermodynamics, fluids, electronic as well as propulsion systems in gas turbine, rocket and internal combustion engines. Learn computer-aided design (CAD) techniques used by professionals, including finite element analysis and computational fluid dynamics, and understand aeronautical engineering principles such as aerodynamics and aircraft design.

Module examples:

- Aerospace Principles
- Aerodynamics and Propulsion
- Flight Dynamics and Control
- Mechanical Design and Structures
- Aircraft Design Project

What you could do next…

Many of our graduates have gone on to secure pilot roles. We have had graduates gain jobs with the RAF, and airlines such as Virgin, Jet2 and British Airways. Others have secured engineering roles with companies such as Rolls Royce, Leonardo Helicopters, Airbus, Boeing, QinetiQ, and British Aerospace.



FIND OUT MORE ABOUT THE COURSE HERE

BEng (Hons) AUTOMOTIVE AND MOTORSPORT ENGINEERING

Our popular Automotive and Motorsport Engineering degree offers you the chance to work with suppliers, manufacturers and sector specialists to put yourself in pole position for successful career as a successful engineer at the forefront of this exciting industry.

ACCREDITED BY

IET Accredited Programme

Re-accreditation with IMechE is currently being sought for intakes from September 2026 onwards, due to curriculum updates to ensure the course's alignment with industry.

90%
TEACHING STAFF HAVE SUPPORTED MY LEARNING WELL

NSS data for students graduating – discoveruni.gov 2023-25

Final year BEng (Hons) Automotive and Motorsport Engineering students

85%
WERE POSITIVE ABOUT THE SUPPORT PROVIDED BY TEACHING STAFF

National Student Survey. Data for students graduating 2023-25

Why choose us…

- Learn in state-of-the-art workshops and engineering labs, featuring industry standard equipment, such as rolling road, computational fluid dynamics (CFD), finite element analysis (FEA), Ricardo WAVE engine simulation and analysis software, and race vehicles.
- Put your practical skills to the test by getting involved in our IMechE Formula Student team, and take our track day car to Silverstone.
- Access our strong industry links and work placement opportunities with automotive and motorsport suppliers and manufacturers, such as Slidesports Race Engineering and Ginetta.
- Choose to apply for a paid placement year in industry to enhance your employability.
- Take part in our annual GradEX graduate exhibition in your final year, showcasing your work to leading industry experts, VIPs and members of the public.

What you'll learn…

Explore automotive and motorsport engineering, developing the skills to analyse vehicle performance, dynamics and complex automotive systems. Develop theoretical knowledge, using computer-based models to design, implement and test your work. Create virtual environments to run your designs and simulations. Take specialist modules in engine design, computational fluid dynamics (CFD) and finite element analysis (FEA).

Module examples:

- Automotive Technology and Aerodynamics
- Electric Vehicles
- Vehicle Dynamics and NVH
- Applied Automotive and Acoustics Engineering

What you could do next…

Many of our graduates now work for companies such as Ford, Jaguar Land Rover, Bentley, Cummins and JCB. Some graduates enter employment as technicians, race engineers and vehicle safety engineers in the motorsport industry, competing in BTCC, World Rally and F1.

BEng (Hons) CONSTRUCTION ENGINEERING WITH MANAGEMENT

Become a hands-on engineer who can manage building projects from the design stage through to completion. On this course, you'll combine technical engineering skills and knowledge of construction methods with the ability to lead teams and analyse problems. Whether you want a career working on new homes or making existing ones more sustainable, you'll have the skillset the construction sector needs.

ACCREDITED BY

This new programme has been designed to meet professional body accreditation requirements. We will seek formal accreditation following our first graduating cohort in 2029 (standard practice for newly launched engineering degrees).

FIND OUT MORE ABOUT THE COURSE HERE

Why choose us…

- Get hands-on in our state-of-the-art materials testing and renewable energy labs, as well as our SmartZone, where you can explore 3D printing and prototyping.
- Learn from a hands-on, practical approach to construction, applying your skills and knowledge to live industry briefs and real engineering problems.
- Draw on our links with engineering companies, including opportunities for industrial visits, placements and real-world projects.
- Use industry-standard BIM software to create simulated models, and bring sites to life with VR-powered walkthroughs.
- Explore both new-build and retrofit challenges, from creating homes and commercial buildings to making existing properties more energy efficient.

What you'll learn…

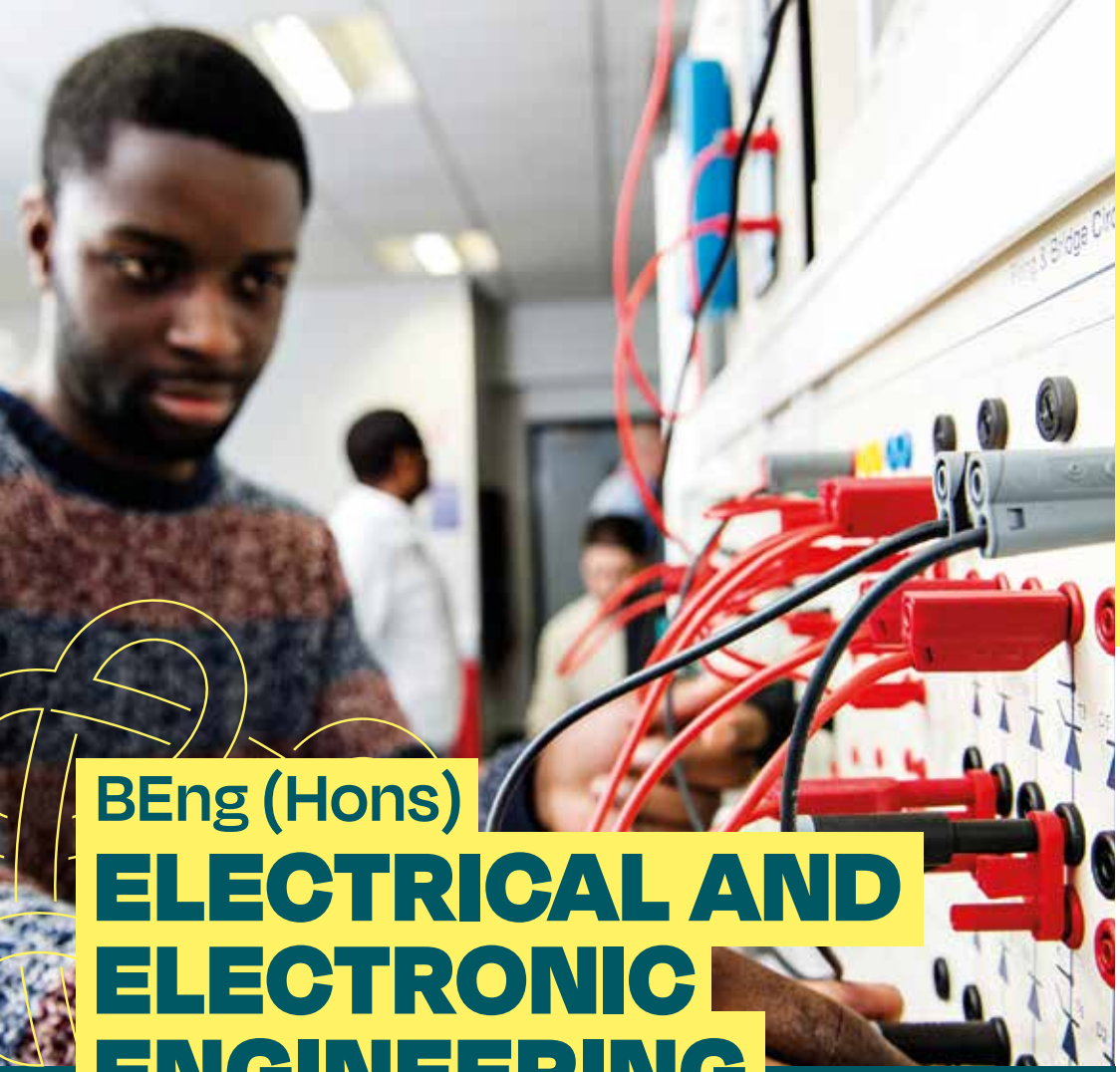
Understand the fundamentals of mechanics, fluids, thermodynamics, and electrical and electronic engineering, then turn theory into practice to see everything from how a beam bends to how a DC circuit works. Learn to interpret drawings, conduct surveys and apply basic analysis as you explore modern building design, and use building information modelling (BIM) software to create digital designs. You'll also be introduced to building types, basic structural principles, health and safety, and the environmental impact of construction, alongside construction law, contracts, bids, pricing strategies and cost estimation.

Module examples:

- Modern Building Design and Surveying
- Building Information Modelling and Design Optimisation
- Construction Technologies, Materials and Processes
- Building Performance and Sustainable Construction
- Construction Law and Bid Management

What you could do next…

You'll have a variety of career opportunities. These include roles as project engineers and project managers working across the construction, civil and wider engineering sectors. You could be creating brand new homes and commercial buildings or retrofitting properties with renewable energy systems.



BEng (Hons) ELECTRICAL AND ELECTRONIC ENGINEERING

Gain a career advantage by developing practical and transferrable engineering skills using cutting-edge technologies to solve real-world problems. Grasp the opportunity to join our accredited BEng (Hons) Electrical and Electronic Engineering course to prepare yourself for one of the world's most in-demand professions.

ACCREDITED BY

IET The Institution of Engineering and Technology
Accredited Programme

FIND OUT MORE ABOUT THE COURSE HERE

100%
TEACHING STAFF HAVE SUPPORTED MY LEARNING WELL

NSS data for students graduating 2023-25

Final year Electrical and Electronic Engineering students

93%
OF STUDENTS WERE POSITIVE ABOUT THE TEACHING ON THE COURSE

NSS data for students graduating 2023-25

Why choose us...

- Study in state-of-the-art workshops and labs on an IET accredited course. Tailor your studies to specialise in a range of areas whilst gaining a solid grounding in engineering principles.
- Access our strong industry links and work placement opportunities.
- Take part in events arranged by the professional body, IET, and benefit from the expertise of guest industry speakers.
- Take part in our annual GradEx graduate exhibition in your final year, showcasing your work to leading industry experts, VIPs and members of the public.
- Access our Smart Zone which provides state-of-the-art fabrication and collaboration spaces with augmented and blended reality facilities. Plus, benefit from the technologies of tomorrow in our Innovation Enterprise Zone - a manufacturing and digital hub for the development of specialist advanced materials.

What you'll learn...

Learn about the design, fabrication and use of a wide range of electronics, circuits, devices and power systems. Our Electrical and Electronic Engineering degree offers flexible pathways to specialise your learning in electrical engineering, or electronic and telecommunication engineering.

Module examples:

- Circuit Design, Modelling and Manufacture
- Control Systems Analysis
- Electrical Machines
- Power Systems analysis
- Real-time Embedded Systems Design and DSP Applications
- Advanced Communication Systems

What you could do next...

Our graduates work in a variety of organisations in electrical power generation, transmission and distribution, renewable energy, rail and road transport networks, industrial manufacturing, and telecommunications. There is also scope to work in defence related industries, including the Ministry of Defence.

FIND OUT MORE ABOUT THE COURSE HERE

BEng (Hons) MECHANICAL ENGINEERING

Experience different aspects of mechanical engineering and develop the knowledge and skills you need to plan, design, problem solve and analyse mechanical engineering systems. Model mechanical engineering systems, predict system behaviour and understand manufacturing processes, including how they influence design.

ACCREDITED BY

IET The Institution of Engineering and Technology
Accredited Programme

Re-accreditation with IMechE is currently being sought for intakes from September 2026 onwards, due to curriculum updates to ensure the course's alignment with industry.

100%
THE COURSE HAS DEVELOPED THE KNOWLEDGE AND SKILLS I THINK I WILL NEED FOR MY FUTURE

NSS data for students graduating 2024–25

Final year Mechanical Engineering students at University of Staffordshire

92%
WERE POSITIVE ABOUT THE LEARNING OPPORTUNITIES THE COURSE PROVIDED

National Student Survey. Data for students graduating 2024–25

Why choose us…

- Gain hands-on experience in our state-of-the-art engineering workshops and labs equipped with the latest technology including, 3D scanners and printers, rapid prototyping, laser cutters, and the latest CAD, CFD and FEA software.
- Access our strong industry links and work placement opportunities to expand your network connections and develop your employability skills.
- Choose to take a paid placement year to further enhance your employability prospects upon graduation.
- Showcase your work to leading industry experts, VIPs and members of the public at our annual GradEX graduate exhibition.
- Access our Smart Zone which fuses state-of-the-art fabrication and collaboration spaces with augmented and blended reality facilities. Plus, benefit from the technologies of tomorrow in our Innovation Enterprise Zone - a manufacturing and digital hub for the development of specialist advanced materials.

What you'll learn…

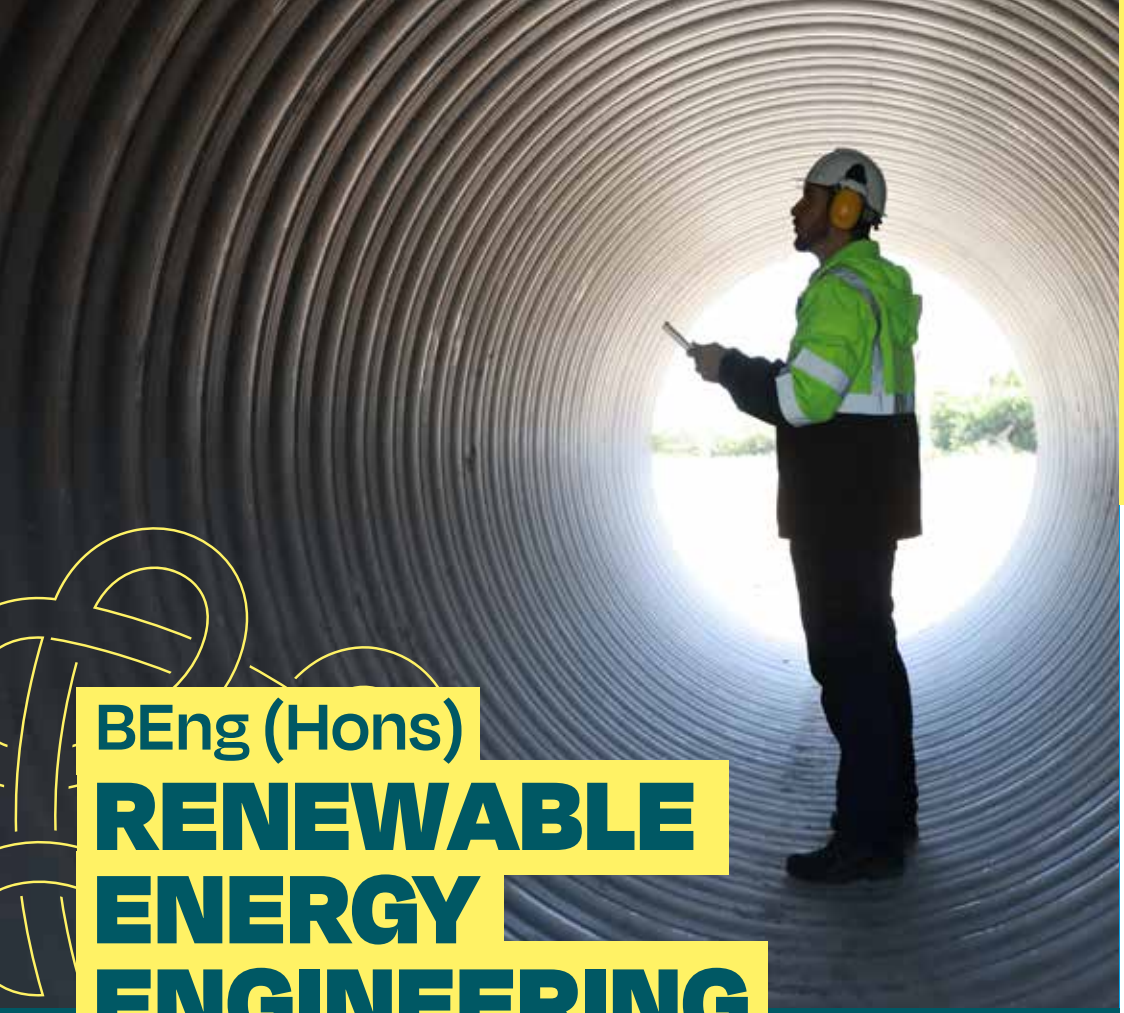
Develop skills that underpin engineering and collaborate, communicate and be creative through examples and problem-based learning. Learn the key engineering skills used in mechanical design and manufacturing processes, mechanical structures, automation and control, FEA and CFD, and emerging technologies.

Module examples:

- Mechanical Design and Structures
- Manufacturing Systems and Quality Management
- Control Systems Analysis
- Structural Analysis and FEA
- Applied Computational Fluid Dynamics

What you could do next…

Graduates have gone on to work in a variety of roles in companies including Alstom, E.ON, Network Rail, Bombardier, Rolls Royce, Bentley, AstraZeneca, Jaguar Land Rover and Siemens. Roles include designing reactor safety systems for nuclear powered submarines, project managing new production lines in the pharmaceutical industry, optimising engine ventilation and cooling systems, and conducting renewable fuel substitution tests.



BEng (Hons) RENEWABLE ENERGY ENGINEERING

Whether you want to design renewable technologies or specialise in distributing energy to customers, this course can lead to lots of opportunities. We cover the whole energy lifecycle, from generation and conversion through to storage and transmission. You'll learn all the engineering fundamentals for success in the renewable energy sector.

ACCREDITED BY

This new programme has been designed to meet professional body accreditation requirements. We will seek formal accreditation following our first graduating cohort in 2029 (standard practice for newly launched engineering degrees).

FIND OUT MORE ABOUT THE COURSE HERE

Why choose us…

- Get hands-on in our state-of-the-art Renewable Energy Lab, where you can generate your own power, explore wind speed and blade angles in our WindLAB, and create prototypes in our SmartZone.
- Learn from a hands-on, practical approach to renewable energy, applying your skills and knowledge to live industry briefs and real engineering problems.
- Learn from staff at the forefront of research into hybrid energy production, aerodynamic design and renewable energy innovation, keeping the curriculum up-to-date and relevant.
- Draw on our links with engineering companies, including opportunities for industrial visits and placements.
- Take part in our annual GradEX graduate exhibition in your final year, showcasing your work to industry professionals.

What you'll learn…

Understand the fundamentals of mechanics, fluids and thermodynamics, along with how circuits work and the use of motors and transformers. Learn how energy is generated, converted, stored and integrated into power networks, exploring solar, wind, hydro, biomass and geothermal systems. You'll learn how to design turbines and fuel cells, improve the energy efficiency of new and existing buildings, and maximise the operational performance of energy systems, as well as exploring ethical decision-making in engineering.

Module examples:

- Electrical Energy Conversion and Storage
- Renewable Energy Systems
- Energy Optimisation and Powerplants
- Building Performance and Sustainable Construction
- Electrical and Electronic Principles with Renewable Applications

What you could do next…

Your skills will be in huge demand as more engineers are needed in the rapidly growing renewable energy sector. Roles include becoming a project engineer or design engineer. You could be developing new turbines and fuel cells, maintaining existing energy systems, and making buildings more energy efficient.

You bring the creativity, we'll bring the industry

APPRENTICESHIPS

EARN WHILE YOU LEARN

If you're looking to study while continuing your career, we can help you achieve a higher-level qualification through a higher or degree apprenticeship. You'll combine practical on- and off-the-job training with university study, giving you the skills, experience, and knowledge to progress in your profession.

We are a leading provider of apprenticeships, working with over 200 employers across various sectors. Apprenticeships provide many benefits such as earning while you learn and enhancing career prospects. They are suitable for anyone looking to start or progress within their chosen career.

The apprenticeship level will depend on the needs of your employer and the apprenticeship you are interested in, with entry requirements of Level 2 Maths and English (GCSE, functional skills or equivalent) and for some programmes a level 3 or above qualification in a subject. You will also require a contract of employment for a minimum of 30 hours per week.

CURRENT ENGINEERING DEGREE APPRENTICESHIP OPPORTUNITIES

Embedded Electronic Systems Design and Development Engineer 3.5 years – level 6

This programme is designed to provide the skills, knowledge, and behaviours needed to operate effectively in the Electronic Systems Engineering sector. The apprenticeship includes a BEng (Hons) Electronic and Electrical Engineering degree and is aligned with the Engineering Council's UK Standard for Professional Engineering. With the industry experience gained during and after the apprenticeship, they'll be able to apply for registration as an incorporated engineer (IEng).

Manufacturing Engineer 3.5 years – level 6

This is an apprenticeship that enables learners to pursue professional careers in mechanical engineering. Apprentices will be prepared for careers in technical roles with an emphasis on developing, maintaining and managing current and developing technology. The apprenticeship includes a BEng (Hons) in Mechanical Engineering and with the industry experience gained during and after the apprenticeship, they'll be able to apply for registration as an Incorporated engineer (IEng).

FIND OUT MORE

IMPORTANT INFORMATION

We're always striving to deliver the most current and relevant degrees, both by creating new courses and regularly reviewing our current offering.

Each time we make changes, the course goes through a rigorous approval process to ensure that it's the perfect fit for our students, employers and other relevant stakeholders.

Some of the courses inside this guide may be marked as 'subject to approval' or 'subject to validation', but don't worry, this just means some of the details of the course won't have been finalised yet. As soon as new courses are approved and validated, up-to-date information will be provided on the online course pages at **www.staffs.ac.uk/courses**

If you have been offered a place and there is a significant change to the course, or for any reason, the course doesn't run – we will contact you immediately and fully support you in finding the best suitable alternative.

At the time of printing in May 2026, the courses listed in this guide represent those we intend to offer for the 2027/2028 academic years. Very occasionally, however, we need to make changes to our courses, including their content and the way in which they are delivered. In some instances, courses can be discontinued or combined with other courses.

Reasons for withdrawing courses can include insufficient student numbers and courses not receiving the necessary accreditation or approval. Changes to course information may include operational and academic reasons.

If circumstances beyond our control mean we cannot provide particular educational services, all reasonable steps will be taken to minimise any disruption to those services. However, the University will have no liability for any loss or damage suffered by any prospect or student as a result.

As a prospective student of University of Staffordshire, it's your responsibility to ensure you have fully reviewed up-to-date course information before you apply, and that your chosen course fully meets your requirements. You should also check the course still meets your requirements before accepting an offer to study with us.

Student satisfaction scores have been provided by Unistats and are correct at the time of going to print. For more information, visit: **discoveruni.gov.uk**

If we discontinue a course or programme and you're not happy with the alternative offered, or if a programme is changed and you're not happy with the changes, you'll be given the opportunity to withdraw from the programme. Up-to-date course information can be found on our website (**www.staffs.ac.uk**), or by calling us on **01782 294400**.

If you're offered a place at University of Staffordshire, your offer will be subject to the University's Terms and Conditions of Offer. If you become a student of University of Staffordshire, you will enter a contract with us and be bound by our rules and regulations. These, too, may vary from time to time (**www.staffs.ac.uk/rulesandregs**).

MODERN UNIVERSITY OF THE YEAR

Daily Mail University Guide 2027

UNIVERSITY OF THE YEAR

Academic Employability Awards 2026
Graduate Futures Institute

7TH FOR OVERALL STUDENT POSITIVITY

National Student Survey 2026

2ND FOR SOCIAL INCLUSION

The Times and The Sunday Times Good University Guide 2026

TOP 5 FOR FIRST GEN STUDENTS

Daily Mail University guide 2026

1ST IN THE UK FOR GAMES

Games Design and Development 2023, 2025, 2026
Concept Art 2026
Rookies Global School Rankings

TIGA Best Games Institution 2024, 2025

68% OF RESEARCH IS "INTERNATIONALLY EXCELLENT" OR "WORLD LEADING"

Research Excellence Framework 2021

For more detailed information on courses or studying at University of Staffordshire visit:
www.staffs.ac.uk/undergraduate

Find us on:
www.staffs.ac.uk/socialmedia

University of Staffordshire

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