University of BRISTOL

Undergraduate study

Mechanical Engineering

Key highlights

Cutting-edge facilities

At Bristol you'll have access to a wide range of facilities, including the largest robotics lab in the UK; the Hele-Shaw fluid mechanics laboratory; and our state-of-the-art engines and propulsion laboratory.

Career progression

Get support from our Industrial Liaison Office for the chance to engage with industry during your study, from insightful lectures to mentoring and internship schemes.

Real-world projects

Our degrees focus on design. In every year of the course, specialist units let you apply creative engineering solutions to real problems.

Why study mechanical engineering at Bristol?

Mechanical engineers apply the laws of maths and physics to create everything from handheld consumer devices to wind farms. At Bristol, you'll benefit from specialist teaching led by the latest developments in engineering practice and research, and you'll graduate with real-world expertise in modelling, manufacture, design and dynamics.

Our courses are fully accredited by the Institution of Mechanical Engineers. Upon completion, you will have already met part (studying BEng) or all (studying MEng) of the exemplifying benchmark academic requirements for becoming an Incorporated (IEng) or Chartered Engineer (CEng).

What you will study

Our three-year BEng degree provides a grounding in all aspects of modern engineering. The MEng course offers the same quality experience, with the final two years focusing strongly on project work.

Across all our mechanical engineering degrees, first- and second-year teaching is based on four main themes: design and manufacture; dynamics and control; thermofluids; and materials. In the first two years you are introduced to the fundamentals of engineering science and their application to real problems, including creative design units.

A major project in year three involves applying the principles covered in years one and two to tackle real-world engineering problems. These projects range from designing devices to reduce the impact of gusts on wind turbines, to developing testbeds for medical prostheses. For MEng students, the fourth-year major group project is designed to replicate the sort of open-ended task and situation that working engineers encounter. Previous projects have seen students program industrial-scale robots to interact with humans, conceive new systems for removing plastic from rivers, and 3D print carbon-fibre bike frames.

Our Study Abroad courses offer you the chance to spend your third year studying overseas, either in English or in a modern language. On the Year in Industry course, you will spend your third year applying the knowledge gained in your first two years in an industrial environment. You can also choose to combine your studies with electrical engineering, in our joint honours degrees that focus on the interface of both disciplines.

Find out more

Entry requirements, course structure and units
bristol.ac.uk/ug2021-mecheng

'I enjoyed both maths and physics at school, and engineering was the perfect combination of the two. Bristol is one of the top universities in the UK for studying mechanical engineering, and it offers the opportunity to study abroad at top institutions all over the world.'

Rebecca (MEng Mechanical Engineering with Study Abroad)

Bristol is famous for its engineering heritage. We have valuable links with world-class local engineering and tech companies, and you'll engage with industry from the very start of your studies.

95% of MEng Mechanical Engineering students are in work or further study six months after graduation – and 95% of those working are in a professional or managerial role (latest DLHE data, 2016/17).

In your first year you will be assigned an industrial mentor – a senior engineer working locally in industry. They will share their experience, give advice on careers, and offer information about what skills employers are looking for.

Courses

BEng / MEng Mechanical Engineering

MEng Mechanical Engineering with Study Abroad

MEng Mechanical Engineering with Study Abroad in a Modern Language

MEng Mechanical Engineering with a Year in Industry

BEng / MEng Mechanical and Electrical Engineering

MEng Mechanical and Electrical Engineering with a Year in Industry

Connect with the Faculty of Engineering

Engineering, University of Bristol

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Photography
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This leaflet contains information for students planning to start university in autumn 2021. We have made every effort to ensure all details are correct at the time of going to press (May 2020). However, since this information is subject to change, you are advised to check the University's website, **bristol.ac.uk/ug-study** for the latest updates. Any sample units listed are indicative and offerings may change due to developments in the relevant academic field. Unit availability varies depending on staffing, student choice and timetabling constraints.

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