



University of  
**BRISTOL**

**Undergraduate study**

# Aerospace Engineering



## Key highlights



### Cutting-edge research

93 per cent of Bristol's engineering research was rated 'internationally excellent' or 'world-leading' (REF 2014).



### Outstanding facilities

With £14 million invested, our facilities include large, flexible teaching, design and workshop spaces, as well as flight simulators, miniature gas turbines and state-of-the-art wind tunnel laboratories.



### Career progression

The faculty's Industrial Liaison Office provides invaluable links to local aerospace giants like Airbus and BAE.



### Become an expert

Our programme meets the educational requirements for Incorporated Engineer (BEng) and Chartered Engineer (MEng), as accredited by the Royal Aeronautical Society, so you can pursue registration as your career progresses.

[bristol.ac.uk/ug-study](https://bristol.ac.uk/ug-study)

## Why study aerospace engineering at Bristol?

If you are passionate about aircraft, spacecraft, Formula 1 or wind power, specialise in aerospace engineering at Bristol and help shape the solutions of the future. Enjoy mastering core concepts such as aerodynamics and structures, growing in confidence as you learn from our aerospace experts. Our degrees equip you with a strong theoretical foundation, which is always motivated by real-world aerospace applications.

The vibrant nature of the department is reflected in our connections with industrial partners such as Airbus, BAE Systems, Rolls-Royce, Leonardo, GE Aviation and GKN Aerospace, which are all on our doorstep.

A degree in aerospace engineering from Bristol will not only challenge you intellectually, but also prepare you for your future career. The problem-solving skills of an aerospace engineer are highly sought after in a wide range of industries.

### Course structure

The first three years of the course are shared by the BEng and MEng degrees, and teach the essential skills for an aerospace engineer.

Teaching is organised into three main streams: aerodynamics, dynamics and control, and structures and materials. You will study subjects that underpin these streams, such as mathematics, computing, systems engineering, and professional studies (covering topics such as business and management). In addition to core theoretical knowledge, you will develop wider skills, such as teamwork and presentation skills, as part of our design-build-test projects. You will conclude your third year with an individual research project.

These three years lay a broad foundation in fundamental engineering, taught in the context of aerospace applications. As you progress through your degree, you will continue to develop your knowledge and skills, leading to an understanding of the complexity of modern engineering.

For MEng students, the fourth year provides the opportunity to specialise, and to further develop your engineering skills in a group design project. The group design project is currently run in close collaboration with our industrial partners, such as Airbus and Leonardo, and provides a fantastic opportunity to work in an engineering team and apply your skills to the design of a complex engineering system.

The specialised optional units reflect the world-leading expertise of our academics and will equip you with detailed knowledge in areas such as advanced composite materials, space systems, helicopter and aircraft dynamics, and experimental or computational aerodynamics.

### Study abroad

If you choose one of our Study Abroad courses, you will spend your third year at a partner university overseas. Our partners are selected to ensure their courses align with that offered in Bristol.

### Year in industry

In collaboration with our Industrial Liaison Office, it is possible to apply for a year in industry after your second year to provide you with practical work experience in a leading engineering company.

## Find out more

Entry requirements, course structure and units  
[bristol.ac.uk/ug2021-aero](http://bristol.ac.uk/ug2021-aero)

'Bristol has a rich aviation heritage, and the combination of industry links and researchers at the cutting edge of their fields not only provides excellent teaching, but equips you with the skills to succeed in the working world.'

**Joshua** (MEng Aerospace Engineering)



Leading the way in composites education and research, the Bristol Composites Institute positions the University among the world's leading research-intensive universities, making it a top destination for aerospace students.



The Industrial Liaison Office manages our links with world-class engineering and tech companies, working to ensure you engage with industry throughout your study. You can attend Inside Track lectures, where business insiders offer first-hand insight, or take advantage of industrial mentoring and internship schemes.

Our state-of-the-art wind tunnel laboratories have been used to test the aerodynamics of aircraft, cars, buildings, and even Wimbledon No. 1 Court.



# Courses

BEng Aerospace Engineering

MEng Aerospace Engineering

MEng Aerospace Engineering with Study Abroad

MEng Aerospace Engineering with Study Abroad in a Modern Language

MEng Aerospace Engineering with a Year in Industry

## Connect with the Faculty of Engineering

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### Photography

Dan Rowley, Bristol Fluid and Aerodynamics Research Group, Nick Smith  
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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](http://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.

