



Our courses

Aerospace Engineering BEng

Aerospace Engineering MEng

Aerospace Engineering with Industrial Experience MEng

Aerospace Engineering with Management MEng

Aerospace Engineering with an Integrated Foundation Year

FLEXIBLE OPTIONS

Our courses have a largely common first and second year, giving students the flexibility to transfer to their chosen course up to the end of Year 2, when they are better informed about the pathways and have a deeper understanding of each specialisation.

FOUNDATION YEAR AVAILABLE

You can prepare for the full degree course if you do not have the appropriate qualifications for direct entry by undertaking our foundation course first.

Find out more about the different courses and options on offer on our department website: uom.link/ug-aero



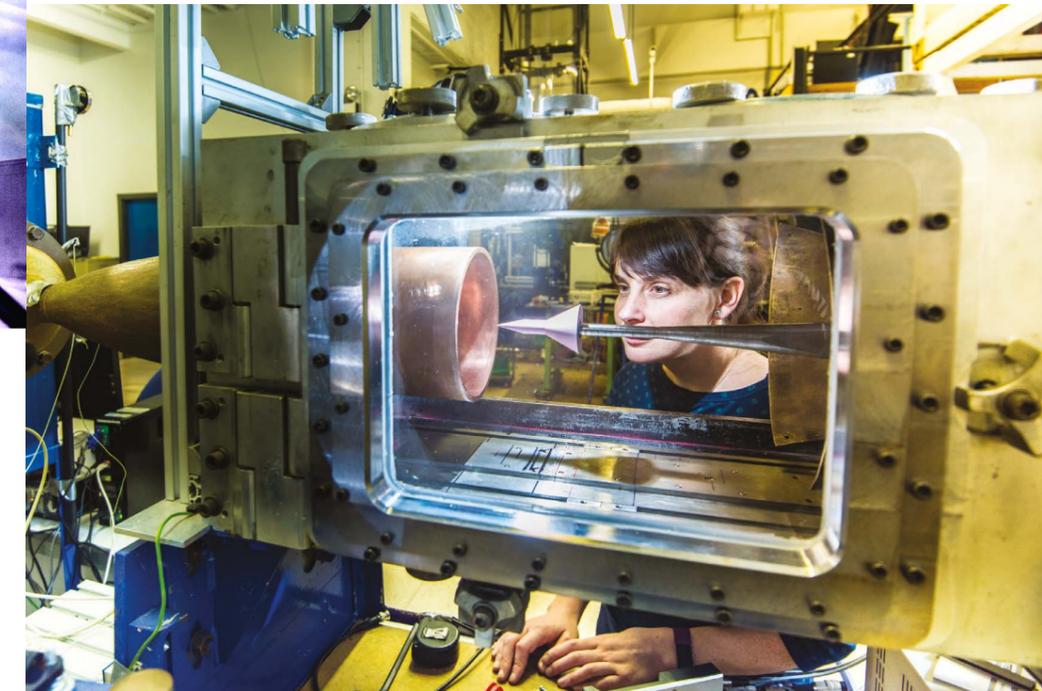
What you'll learn

Our aerospace courses prepare you for a professional career in the aerospace industry (design, development, testing and operation of vehicles and systems), as well as in other areas, such as research, management, technical development and finance.

Our third year features an individual project – where you will undertake a major investigative project by yourself. This will require scientific investigations, and you will work with and learn from an expert academic in the relevant field of research.

Study a degree where the sky really is the limit and discover everything from the theory behind how an aircraft flies to the design and engineering processes in making them a reality. Through our courses you will not only learn about commercial airplanes and UAVs, but also the science and engineering of spacecraft and the challenges of humans exploring beyond our Earth.

Aerospace engineers take on a range of technological and managerial challenges from designing, building and manufacturing complex equipment, to managing large and complex human enterprises. And of course, they are involved in creating and designing aircraft and spacecraft as well as flying and operating airlines. The diverse nature of the industry makes aerospace engineering one of the most dynamic and exciting sectors of the British economy.



Aerospace Engineering

Undergraduate Courses



Why Manchester



Graduate from a course accredited by the Royal Aeronautical Society, vital for those interested in gaining chartered engineering status.



Gain hands-on experience using an incredible array of resources and facilities, including sub and supersonic wind tunnels, flight simulators, UAV workshops and space environment labs.



You'll benefit from a collegiate, supportive atmosphere in which teaching is informed by our world-leading research.



We have strong industry links with companies such as Airbus, BAE Systems, Rolls-Royce and EDF Energy. Our graduates go on to work for the biggest names in engineering and beyond.

Read more about why Manchester should be your first choice here: uom.link/ug-aero-why-mcr

Special features

INDUSTRIAL EXPERIENCE

Competition in the graduate job market has risen dramatically over the last ten years, and students are increasingly looking for ways to differentiate themselves. An excellent way to do this is by choosing an industrial placement as part of your degree course. This involves spending a year working in industry, typically after your third year of study. As well as the salary that you earn during your placement, you also gain practical experience that can be invaluable both in your final-year project and when competing for graduate jobs.

WITH MANAGEMENT

Many professional engineers will find themselves in positions of responsibility. Projects must be planned, costed and managed, and products must be designed, manufactured and marketed in the real world. An engineer is thus often required to possess skills in management, decision-making and finance. We collaborate with the Alliance Manchester Business School to offer degree courses with management, which provides our students with additional knowledge and skills in engineering management.

Read more about your options: uom.link/ug-aero-study

FACILITIES

Our well-equipped laboratories include state-of-the-art facilities such as:

- Flight simulation
- Wind tunnels (both sub- and super-sonic)
- Space environment testing laboratories.



"I really liked Manchester's modern approach to teaching, as in the first and second years it wasn't all theory-based. We had opportunities to do practical workshops where I got to try out welding and milling, which you wouldn't normally get to do, and for me it was the first time trying it".

Anna Christa Urquhart / MEng Aerospace Engineering

See what our students think and why they chose Manchester: uom.link/ug-aero-students

OUR STUDENT COMMUNITY

We have numerous societies and groups that you can get involved with, offering activities from volunteering and quiz nights to netball and football. Our student-run AeroSoc (Aerospace Society) also organise networking opportunities and industrial and academic visits and seminars. The Flight Simulation Society (FSSoc) offers the opportunity to design an aircraft from scratch and experience piloting their custom aircraft using a full-motion flight simulator.

WES (Women in Engineering Society) promotes women in all specialties of engineering and organises social events, mentoring schemes, networking opportunities and outreach programmes.

uom.link/ug-aero-student-union

Our YouTube channel includes videos about our department, our courses and our students: uom.link/ug-aero-vid

Open days

The University holds undergraduate open days regularly where you have the opportunity to find out more about our courses, the support we offer and see our facilities. Attending an open day is a great way to find out what studying at Manchester is like and to hear from our staff and students.

For information about our open days visit: uom.link/ug-aero-open-day

Our campus

There has never been a better time to study at The University of Manchester, with our new home for Engineering and Materials Science transforming the way our students study, research and shape the world forever.

At the heart of the design lies the innovative approach to unite students across all disciplines, in one connected and dynamic environment. The open spaces throughout the buildings support a variety of teaching and learning styles, through blended lecture theatres, multi-purpose study spaces and state-of-the-art laboratories and technical spaces. Students can really shape their own learning environment.

Our students will have access to industry-leading facilities and equipment that help tackle the most pressing, real-world challenges. Our new home for Engineering and Materials Science is equipped and ready for students to unleash their potential.

uom.link/ug-aero-campus



Employability and careers

Our graduates are highly sought after and an aerospace engineering degree from Manchester can be your ticket into any number of industries.

Watch our alumni, and now lecturer Khris Kabbabe, talk about his career path: uom.link/ug-aero-khris-vid

Our graduates go on to a range of exciting careers including aerospace design, and development, testing and operation of vehicles and systems. Other areas include research, technical development and finance.

WHAT OUR GRADUATES DO

- Air Systems Engineer
- Quality Engineer
- Aerospace Engineer
- Aircraft Designer
- Data Processing Manager

WHERE OUR GRADUATES WORK

- Rolls Royce
- Jaguar Land Rover
- BAE Systems
- Airbus
- EDF Energy

Find out about the careers opportunities the University and our department offer, so that you graduate with a range of skills and experience: uom.link/ug-aero-careers

Get in touch

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Royal Charter RC000797

DISCLAIMER

This brochure was produced in 2021. It has therefore been produced in advance of course starting dates. For this reason, course information, including course content, may be amended prior to your applying for a place on a course of study. There are a number of reasons why changes to course information and/or published term dates may need to be made prior to your applying for a place on a course. These may include, but are not limited to: the need to make reasonable changes to the content and teaching offered in relation to any course for operational and/or academic reasons; the withdrawal of courses due to insufficient numbers; a course not receiving the required accreditation; and/or interruption or loss of key services due to circumstances beyond our control, including fire, flood or other operational issues.

Prospective students are therefore reminded that they are responsible for ensuring, prior to applying to study at The University of Manchester, that they review up-to-date information by searching for the relevant course at uom.link/fse-ug-courses

INDUSTRIAL EXPERIENCE DISCLAIMER

Some aspects of the industrial experience programmes may continue to be impacted by the COVID-19 pandemic. The situation is fast-moving and dynamic and may require adjustments at short notice.

For up-to-date information please visit uom.link/fse-ug-study