In 2016, civil aviation was responsible for transporting 3.8 billion travellers worldwide. The number of passengers is expected to grow at a rate of 3.7% every year, doubling by 2035. Space transport is also becoming increasingly important: an ever larger number of companies is specialising in cheaper sub-orbital and orbital flights, both for leisure and to deliver state-of-the-art satellites. This growing industry will require skilled graduates who will be centre stage in solving important technological challenges.

With this in mind, the University of Birmingham has launched two new undergraduate programmes, based on our extensive experience in the wider field of aerospace engineering. Researchers, lecturers and professors at the University of Birmingham have been leading progress in a number of areas, from the LISA Pathfinder mission to higher-performing jet engines. This, alongside strong collaborations with Rolls-Royce, Airbus, and many other leading companies, will give our graduates a great start towards successful careers.

Graduates will be gaining skills required to successfully join the wider aerospace industry. In particular, our graduates will be prepared to transform the emerging fields of satellite, deep space missions and unmanned aerial vehicles, where remote control and communications are required. This is achieved by a common first two years where key aspects underpinning aerospace engineering are covered before the students specialise in Materials or Engineering (structures and avionics) for their final year(s). Aspects of space missions continue through Years 2–4 for both specialisms. Graduates could also pursue careers and research opportunities in non-aerospace areas where expertise in advanced materials, manufacturing, structures, aggressive environments and remote communication and control are important.

These courses are fully accredited by IOM3 on behalf of the Engineering Council.

ENTRY REQUIREMENTS

MEng: AAA with A level Mathematics and a Physical Science
BEng: AAB with A level Mathematics and a Physical Science

Other qualifications are also accepted, including international qualifications, please see the web pages or contact the admissions tutor, for details.

LEARN MORE

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This leaflet was written several months in advance of the start of the academic year. It is intended to provide prospective students with a general picture of the programmes and courses offered by the School. Please note that not all programmes or all courses are offered every year. Also, because our research is constantly exploring new areas and directions of study some courses may be discontinued and new ones offered in their place.