

MSc Engineering with Management

Postgraduate study



Including specialist pathways in:

- Intelligent Manufacturing
- Energy for Sustainability
- Infrastructure Systems

If you want to gain leading edge knowledge in management practices and state-of-the-art industrial advances to lead in the new era of engineering and technology, this programme is for you.

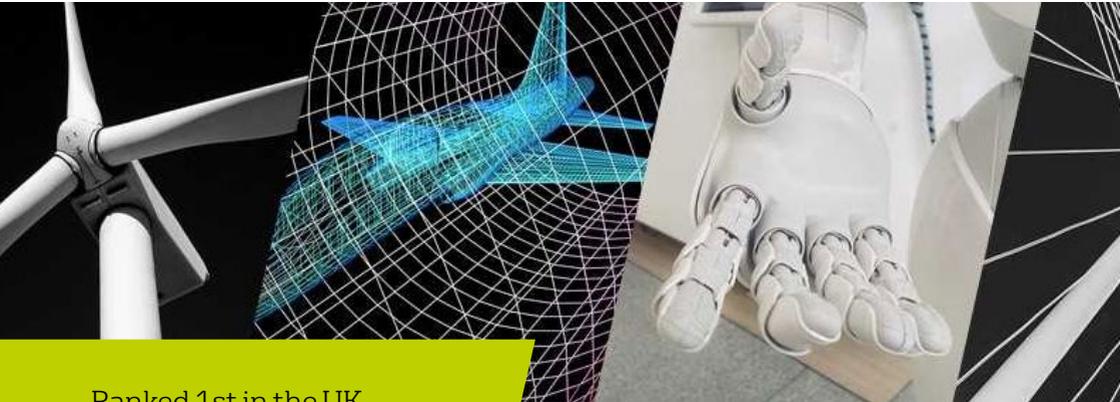
Why choose Bristol?

The MSc in Engineering with Management is a unique one-year programme that combines the foundations of management for engineering and technology with the opportunity to pursue one of four specialist pathways. Taught in the School of Civil, Aerospace and Mechanical Engineering, you will join one of the UK's top engineering schools and learn from a distinguished team of experts.

With world-leading companies including Arup, Babcock, DNV GL, GKN, Airbus, Rolls-Royce and the National Composites Centre on our doorstep, we've placed industry at the heart of the vision for this programme and each of the four specialist pathways that you can pursue on the programme.

Intelligent Manufacturing will be supported by staff and industry who specialise in the areas of 3D printing, Industry 4.0 and the Internet of Things. Energy for Sustainability and Infrastructure Systems draw on the University's well established and respected research history in areas such as systems engineering, smart cities, asset management and its links to key influencers and decision makers in government.

Energy for Sustainability has been developed in collaboration with leaders in the renewable energy industry. Modelling and Simulation has been developed from the needs of the aerospace industry for advanced multi-disciplinary modelling and optimisation techniques and is applicable to other industrial sectors.



Ranked 1st in the UK
for general engineering
The Times' league tables 2022

What will you study?

You'll experience thought-provoking common units on:

- Strategic Business Management for Engineers
- Engineering Design and Technology
- Uncertainty and Risk Management

The pathways will provide specialist technical units. You will learn about:

- **Intelligent Manufacturing:** virtual product development, advanced manufacturing processes, the use of data-driven methods to enable intelligent automation and control of manufacturing facilities and smart manufacturing tools and techniques.

- **Energy for Sustainability:** sustainable energy technology, energy for transport and propulsion, and also gaining specialist knowledge in wind and marine energy, designing wind and solar energy devices using commercial software.
- **Infrastructure Systems:** project and asset management, infrastructure systems, new technologies for smart cities and transportation, whilst recognising the related impacts of risks and hazards.



“Students on the programme will be taught by experts who are true leaders in their field and will gain exposure to realistic projects, providing the skills and experience needed for direct entry into industry when graduating.”

Dr. Andrew Garrad, CBE
Co-founder the
Garrad Hassan Group



Career prospects

As a graduate of the MSc in Engineering with Management programme, you'll be equipped to pursue a leadership role in world-leading engineering and technology organisations, or you could choose to work in a variety of industries such as consultancy management or business development. In addition, this programme will support leadership roles based in manufacturing, supply chain management or government, particularly where technology is of importance to business success.

The programme is designed to prepare you with the skills and knowledge needed for leadership roles in global technological industries as well as in dynamic entrepreneurial start-up companies to address global challenges, the digital revolution and the business dilemma of sustainability.

Find out more

For the most recent information on how to apply, fees and entry criteria, visit:
bristol.ac.uk/msc-engineering-management

Entry requirements

A UK upper second-class honours degree (or international equivalent) in an engineering discipline.

Applicants with lower second-class honours degree (or international equivalent) in an engineering discipline or applicants with a non-engineering degree who can demonstrate engineering-relevant work experience will be considered by the Admissions Tutor on a case-by-case basis.

English Language Profile E

For details of English language profiles, visit
bristol.ac.uk/pg-language-requirements.

Contact us

If you have any questions relating to the programme or the application process, please contact our Enquiries Team:

Tel: +44 (0) 117 394 1649

Email: choosebristol-pg@bristol.ac.uk

You may also contact the Programme Director Dr. Hadi Abulrub:

Email: hadi.abulrub@bristol.ac.uk

If you need all or part of this publication in an alternative format, please email
choosebristol-pg@bristol.ac.uk

We have made every effort to ensure all details are correct at the time of going to press (November 2021). However, since this information is subject to change, you are advised to check the University's website, bristol.ac.uk/pg-study, for the latest updates.

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