

**Faculty of Engineering**

**MSc Engineering with Management**  
**Intelligent Manufacturing**

Postgraduate study



**One of the specialist pathways you can study  
within the MSc Engineering with Management**

Delivering personalised products and services requires a close integration between information technology and manufacturing resources. This pathway explores the challenges in this integration and will prepare you to manage intelligent factories that are enabled by the Internet of Things, Digital Twins and Data-Driven production platforms. Such factories, sometimes named Industry 4.0 (to indicate they herald the fourth industrial revolution) encompass new processes, new resources and new approaches to management.

All three aspects are covered in the intelligent manufacturing pathway of the MSc in Engineering with Management. This degree will enable you to take an active role in the next generation of sustainable production systems - socially, economically and environmentally.

### What will you study?

You'll study a number of joint core units to enhance your leadership skills plus specialist technical units to suit your aspirations.

#### Joint core units:

- Strategic Business Management for Engineers
- Engineering Design and Technology
- Systems Risk Management
- Interdisciplinary Research Skills

#### Pathway specialist units:

- Smart Manufacturing Processes and Technologies
- Product and Production Systems

The dissertation is a core unit where you will work on a project in the field of engineering management relevant to your pathway.

### Career prospects

You will be able to take on leadership roles in intelligent factories with a good understanding of the technologies and processes that enable high performance sustainable production in such environments.

Graduates will be able to link the high technical performance of the systems with the environmental, societal and economic goals of the enterprise and devise innovative solutions to manufacturing problems.

### Related pathways

The Engineering with Management Programme offers the following alternative pathways:

- Energy for Sustainability
- Infrastructure Systems

### Find out more

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

### Contact us

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

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If you need all or part of this publication in an alternative format, please email  
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We have made every effort to ensure all details are correct at the time of going to press (August 2024). However, since this information is subject to change, you are advised to check the University's website, [bristol.ac.uk/pg-study](http://bristol.ac.uk/pg-study), for the latest updates.