MSc in Engineering Management

A leading-edge Masters programme designed for graduates in the science and engineering fields.

Develop essential, high level management and financial skills with an emphasis on technology strategy and innovation, strategic management, advances in frontier technologies and new product development in nanotechnology and electronics.
MSc in Engineering Management

The career of a manager within the engineering environment is an exciting and challenging one: overseeing complex projects, taking charge of teams and delivering on time and on budget, as well as helping to develop strategic planning techniques for future products and projects. Yet there is a worldwide shortage of graduates who have the elusive combination of technical knowledge, management capability and practical experience that such a demanding role needs.

This programme has been created by the Department of Electronic Engineering and the Centre for Professional Studies at Royal Holloway, University of London to meet that demand; it has been designed to enhance the employability of its students, their professional advancement and career progression.

This programme will provide you with:

• The practical and academic qualifications needed to meet the demands of employers across this competitive global market, including industry recognised PRINCE2.

• The ability to design and implement high level business ethics and social responsibility programmes, and apply the critically important concept of sustainability across all engineering and manufacturing corporations globally.

• In-depth knowledge in the fields of strategic management, technology strategy, R&D portfolio management, innovation management and commercialisation and entrepreneurship in high tech, operations and quality management in manufacturing and software, advanced materials technologies, nanoscience and nanotechnology convergence and national systems of innovation competing across the Americas, Europe and Asia.

• In-depth understanding of corporate governance, strategic management, finance and accounting, and strategic planning and the ability to apply them to global strategies and operations, and the organisational design of modern industrial corporations in engineering, manufacturing and science-based industries.
The programme examines frontier technologies across several fields. But importantly, and, uniquely, it includes hands-on engineering skills in electronic engineering. Here, the programme places emphasis on electronic materials and technologies, new product development in the electronics sector, and creative new technologies and new product concepts, in the context of projects pursued by individual and teams of students. The programme includes theoretical and practical activities and research projects in the areas of sustainable energy generation and, amongst others, wearable electronic devices and products, thereby preparing students for the technologies, industries and careers of the future.

This programme is designed to equip you with the practical tools and skills, together with an understanding of the academic theories underpinning them, to enable you to meet the challenge of working in a management environment within the engineering sector.

**Entry Requirements**

UK lower second class (2:2) degree or equivalent. Applicants with demonstrable work experience as managers or engineers will be considered on a case by case basis.

Applications are welcome from students with an engineering, technology, science or management subject area.

Students whose native language is not English and who have not studied their first degree in an English speaking institution require IELTS 6.5 with no sub-score below 5.5, or equivalent.

**Fees and funding (September 2019 entry)**

- Home/EU students: £11,300
- International Students: £18,500

* Please check our website for latest information

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[royalholloway.ac.uk/cps](http://royalholloway.ac.uk/cps)
**Programme structure**

The programme will consist of nine taught modules, one professional qualification and a dissertation. Term 1 will comprise five core/compulsory taught modules and Term 2 will comprise four core/compulsory taught modules.

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<th>Term 1</th>
<th>Term 2</th>
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<tr>
<td>Business Research Methods</td>
<td>Corporate Governance, Ethics and Sustainability</td>
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<tr>
<td>Introduction to Project Management</td>
<td>Frontier Technologies: From Concept to Commercialisation</td>
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<td>Operations and Quality Management</td>
<td>Sustainable Power Generation</td>
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<td>International Strategic and Technology Management</td>
<td>Managing People and Organisations</td>
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<td>International Accounting and Finance</td>
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<tr>
<th>Term 3</th>
<th>Non core</th>
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<td>Project by Dissertation (15,000 words)</td>
<td>PRINCE2</td>
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