

Engineering Management Masters/MSc postgraduate degree



This degree is aimed at holders of at least an upper second class Honours degree in engineering or similar who would benefit from completing technically-based study with some management at postgraduate level. You might be just finishing your first degree, or perhaps already in your first role and looking to advance your career.

You will learn about systems modelling and systems engineering, as well as the application of problem structuring methods in real engineering situations. You will also learn how to analyse different management strategies and apply critical appraisal techniques in a variety of technical areas, e.g. construction, production, manufacturing.

On completion, you will have gained the skills and knowledge required to work in industrial engineering and/or technical management.

[Study here and find out why the University of Birmingham was awarded The Times and The Sunday Times University of the Year 2013-14](http://www.birmingham.ac.uk/news/latest/2013/09/20-sep-Birmingham-announced-as-University-of-the-Year.aspx)
[\(<http://www.birmingham.ac.uk/news/latest/2013/09/20-sep-Birmingham-announced-as-University-of-the-Year.aspx>\)](http://www.birmingham.ac.uk/news/latest/2013/09/20-sep-Birmingham-announced-as-University-of-the-Year.aspx)

Course fact file

Type of Course: Taught

Study Options: Full time, part time

Duration: MSc: 1 year full-time; 2 years part-time

Start date: September

Related courses

[Postgraduate degree courses -School of Mechanical Engineering \(/schools/mechanical-engineering/postgraduate/index.aspx\)](/schools/mechanical-engineering/postgraduate/index.aspx)

[Operations Management Masters/ MSc postgraduate degree \(/postgraduate/courses/taught/mechanical-engineering/operations-management.aspx\)](/postgraduate/courses/taught/mechanical-engineering/operations-management.aspx)

[Project Management Masters/MSc postgraduate degree \(/postgraduate/courses/taught/mechanical-engineering/project-management.aspx\)](/postgraduate/courses/taught/mechanical-engineering/project-management.aspx)

Contact

The Postgraduate Office

Tel: +44 (0)121 414 4233

Email: mfg-mech-postgrad@bham.ac.uk (<mailto:mfg-mech-postgrad@bham.ac.uk>)

[School of Mechanical Engineering \(/schools/mechanical-engineering/index.aspx\)](/schools/mechanical-engineering/index.aspx)

[Follow us on Twitter \(http://twitter.com/eps_unibham\)](http://twitter.com/eps_unibham)

Details

We offer three modular programmes intended for those aspiring towards senior positions in:

- Project Management (PM)
- Operations Management (OM)
- Engineering Management (EM)

We concentrate upon not only analytical subjects but also communication skills and teamwork. Semester 1 modules are taken by all students to develop a firm base of general knowledge and techniques for further specialised management study. Semester 2 sees students split into relevant modules for each programme; these modules are designed to provide students with a rounded view of management in the engineering and industrial sectors. The programme culminates in a 15 week dissertation project encompassing real industry or commercial study, which will be undertaken in the summer (in year 2 for part-time students).

Examples of project titles:

- BP in the Global Oil Industry
- Human Resources Management at Royal Bank of Scotland
- Analysis of the Hellenic Steel Industry

- Strategic Repositioning of the BMW Group

Related links

- [Postgraduate degree courses -School of Mechanical Engineering \(/schools/mechanical-engineering/postgraduate/index.aspx\)](http://schools/mechanical-engineering/postgraduate/index.aspx)

Why study this course

The MSc programmes in Mechanical Engineering are rooted in high-quality teaching and learning through enquiry-based and independent study, producing high calibre graduates equipped with the skills to excel in technical management.

Students will benefit from our established links with industry, which can be utilised during the dissertation projects and form a solid networking base for prospective careers.

The University of Birmingham has some 50 years of experience in providing top-quality education and at MSc level in various aspects of Engineering and Management - and reading for an MSc at Birmingham continues to be a unique learning experience.

Modules

Semester 1	Credits	PM	OM	EM
Systems Thinking (http://selfservice.bham.ac.uk/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=04&pgCrse=22730) (04 22730)	10	①	①	①
	10	②	②	②
Systems Engineering (http://selfservice.bham.ac.uk/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=04&pgCrse=21522) (04 21522)	20	②	②	②
Finance and Core Skills (http://selfservice.bham.ac.uk/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=04&pgCrse=20471) (04 20471)	20	①	①	①
Construction Management (http://selfservice.bham.ac.uk/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=04&pgCrse=16196) (04 16196)				
Semester 2	Credits	PM	OM	EM
Strategic Management (http://selfservice.bham.ac.uk/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=04&pgCrse=01570) (04 01570)	10	①	②	②
	20	②		①
Infrastructure Development Planning (http://selfservice.bham.ac.uk/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=04&pgCrse=27097) (04 27097)	10	①	①	
	10		②	
Operations Management (http://selfservice.bham.ac.uk/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=04&pgCrse=01995) (04 01995)	10		①	①
	10			②
Simulation (http://selfservice.bham.ac.uk/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=04&pgCrse=22987) (04 22987)	10			
	10	①	①	
Management Information Systems (http://selfservice.bham.ac.uk/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=04&pgCrse=22988) (04 22988)	10	②	②	②
Eng. Production in Construction (http://selfservice.bham.ac.uk/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=04&pgCrse=16200) (04 16200)				
Marketing (http://selfservice.bham.ac.uk/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=04&pgCrse=02049) (04 02049)				
Research Skills (http://selfservice.bham.ac.uk/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=04&pgCrse=23661) (04 23661)				
Semester 3	Credits	PM	OM	EM
Dissertation (http://selfservice.bham.ac.uk/webhandbooks/WebHandbooks-control-servlet?Action=getModuleDetailsList&pgSubj=04&pgCrse=01450) (04 01450)	60	②	②	②

Notes

Full-time study by taking all prescribed modules in one year; part-time by taking modules denoted ① in year 1 and then those marked ② in year 2.

Fees and funding

Tuition fees

Tuition fees for 2015/2016 are as follows:

- £6,840 for home/EU students
- £17,960 for international students

Part-time programmes

Most part-time programmes run for two years and their fees are one half of the standard full-time programme fees. A small number of part-time programmes run for three

years and in these cases the annual fees are one third of the total full-time cost. Contact us for further information.

UK student visa regulations mean that students classed as overseas for fees purposes may normally only register on a full-time basis.

Further funding information

Standard fees (</postgraduate/pgt-fees/fees.aspx>) apply

Learn more about **fees and funding**

(</postgraduate/pgt-fees/index.aspx>)

Scholarships and studentships

Email sfo@contacts.bham.ac.uk (<mailto:sfo@contacts.bham.ac.uk>) for University information but note that no scholarships or studentships are available from the School itself.

International students can often gain funding through overseas research scholarships, Commonwealth scholarships or their home government.

Entry requirements

At least an upper second-class Honours degree in Engineering.

Learn more about **entry requirements** (</postgraduate/requirements-pgt/index.aspx>).

International students

We accept a range of qualifications from different countries – learn more about **international entry requirements** (</postgraduate/requirements-pgt/international/index.aspx>).

Standard English language requirements (</postgraduate/requirements-pgt/international/index.aspx>) apply.

How to apply

When clicking on the Apply Now button you will be directed to an application specifically designed for the programme you wish to apply for where you will create an account with the University application system and submit your application and supporting documents online. Further information regarding how to apply online can be found on the **How to apply pages** (<http://www.birmingham.ac.uk/students/courses/postgraduate/apply-pg/index.aspx>).

Apply now (<https://pga.bham.ac.uk/lpages/EPSo14.htm>)

Related links

Postgraduate degree courses -School of Mechanical Engineering (</schools/mechanical-engineering/postgraduate/index.aspx>)

Learning and teaching

Delivery of the taught modules is "block teaching" whereby 10 credit modules are delivered in one-week blocks and 20 credit modules over two weeks, allowing students to focus on and gain an in-depth knowledge of each subject and enabling each programme to be taken full-time (1 year) or part-time (2 years) as preferred. Rather than just teaching students by lectures, we help them to learn through a combination of guided study, investigations, projects and research, i.e. "**enquiry-based learning**" (<http://www.birmingham.ac.uk/university/about/students.aspx>).

Please note that our programmes may change as we review our MSc provision. Before making an application, contact the School directly for the most up-to-date information.

Related staff

Dr Andrew Tobias (</staff/profiles/mechanical/tobias-andrew.aspx>)

Employability

Our programmes are highly demanding and attract high flying graduates who want to go into careers in senior management and consulting. We aim to provide the opportunity not only to study a full range of relevant subjects and techniques but also to develop the professional skills necessary for a successful future career.



Daniel Thomas, MSc Engineering Management 2012

"I was attracted to the taught master's programmes in the School of Mechanical Engineering for the purpose of expanding my business acumen after completing an undergraduate degree in Chemical Engineering. I have just



recently been granted an advisory role with Ernst & Young to work with financial services organisations in dealing with their technology implementation across the supply chain. The MSc in Engineering Management has further deepened my commercial awareness and without it I don't think I would've been as fortunate in securing a role in consulting with a 'Big 4' professional services firm."

University Careers Network

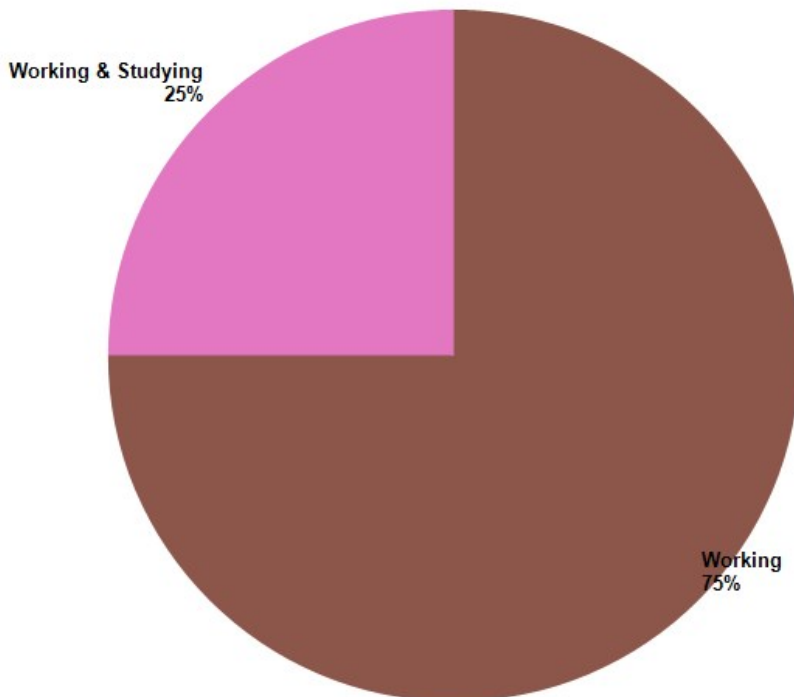
Preparation for your career should be one of the first things you think about as you start university. Whether you have a clear idea of where your future aspirations lie or want to consider the broad range of opportunities available once you have a Birmingham degree, our Careers Network can help you achieve your goal.

Our unique careers guidance service is tailored to your academic subject area, offering a specialised team (in each of the five academic colleges) who can give you expert advice. Our team source exclusive work experience opportunities to help you stand out amongst the competition, with mentoring, global internships and placements available to you. Once you have a career in your sights, one-to-one support with CVs and job applications will help give you the edge.

If you make the most of the **wide range of services** (<https://intranet.birmingham.ac.uk/as/employability/careers/college/eps/index.aspx>) you will be able to develop your career from the moment you arrive.

Destinations of Leavers from Higher Education (DLHE) 2011/12 (postgraduate taught graduates)

The DLHE survey is conducted 6 months after graduation.



Examples of employers

- Acturis
- Aston Martin
- BP
- BAE Systems
- Demag Cranes
- Ministry of Defence
- PA Consulting
- Penso
- PricewaterhouseCoopers
- Royal Air Force

Examples of occupations

- Aerospace Engineer
- Auditor
- Calibration Engineer
- Design Engineer
- Engineer
- Engineering Officer Cadet
- Financial Analyst
- IT Consultant
- Mechanical Engineer
- Project Engineer

Further study - examples of courses

- MSc Automotive Engineering

- MSc Computer Science
- MSc Environment and Sustainable Technologies
- MSc Industrial Product Design
- MSc Physics
- PGCE Mathematics
- PhD Aerospace Engineering
- PhD Biomedical Engineering
- PhD Manufacturing and Mechanical Engineering

Visit the **Careers section of the University website** (<https://intranet.birmingham.ac.uk/as/employability/careers/college/eps.aspx>) for further information.