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Industrial Project Management Masters/MSc/Diploma/Certificate

Postgraduate degree course in Industrial Project Management Masters/MSc/Diploma/Certificate

The course is industry focused and looks to cover both theory and application of project management principles, practices and tools. Leadership, team building and influencing skills, integral to successful complex project delivery are also explored.

Chemical Engineering is dynamic and evolving. It provides many solutions to problems facing industries in the pharmaceutical, biotechnological, oil, energy and food and drink sectors. It is vital to many issues affecting our quality of life; such as better and more economical processes to reduce the environmental burden, and more delicious and longer lasting food due to the right combination of chemistry, ingredients and processing.

Birmingham is a friendly, self-confident, School which has one of the largest concentrations of chemical engineering expertise in the UK. The School is consistently in the top five chemical engineering schools for research in the country.

It has a first-class reputation in learning, teaching and research, and is highly placed in both ***The Guardian*** and ***The Times*** league tables. The School was recently awarded the **Queen's Anniversary Prize for Higher Education.**

THE QUEEN'S ANNIVERSARY PRIZES
FOR HIGHER AND FURTHER EDUCATION
2011

Study here and find out why the University of Birmingham has been 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)

Course fact file

Type of Course: Taught

Study Options: Part time

Duration: 3 year part time for the MSc or 1 – 2 year part time for certificate and diploma.

Start date: January

Related courses

Advanced Chemical Engineering Masters/MSc/Diploma (/postgraduate/courses/taught/chemical-engineering/advanced-chemical-engineering.aspx)

Biochemical Engineering Masters/MSc/Diploma (/postgraduate/courses/taught/chemical-engineering/biochemical-engineering.aspx)

Food Safety, Hygiene and Management Masters/MSc/PG Diploma/PG Certificate (/postgraduate/courses/taught/chemical-engineering/food-safety-hygiene.aspx)

Postgraduate degree courses - School of Chemical Engineering (/schools/chemical-engineering/postgraduate/index.aspx)

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School of Chemical Engineering (/schools/chemical-engineering/index.aspx)

Details

Programme aims

The course is industry focused and looks to cover both theory and application of project management principles, practices and tools. Leadership, team building and influencing skills, integral to successful complex project delivery, are also explored.

The key objectives of the course are:

- A systematic understanding of Project Management knowledge, and critical awareness of current challenges in an industrial context
- <divcontenteditable=true>A comprehensive understanding of techniques applicable to advanced study of Project Management
- <divcontenteditable=true>Innovation in the application of Project Management knowledge, but with a practical understanding of how established techniques of research and enquiry are used to create and interpret information
- Conceptual understanding of Project Management that enables them to critically evaluate current research and advanced scholarship and evaluate methodologies and develop critiques of them

Programme content

The course is modular in structure with nine intensive compulsory taught modules spread over two years (120 credits taught material) and a major project in the third year (60 credits). Students may choose to complete one year (for a Certificate in Project Management), two years (for a Diploma in Project Management) or a full three-year MSc course. The first two years are made up of four to five taught modules per year.

Each module is a mix of theory, practical example and coursework, and requires around three days of classroom tuition. The third year is a major project on an in-depth industrial project, managed using the principles and tools taught in the earlier two years.

Related links

- **Postgraduate degree courses - School of Chemical Engineering (/schools/chemical-engineering/postgraduate/index.aspx)**
- **Taught postgraduate programmes - School of Chemical Engineering (/schools/chemical-engineering/postgraduate/taught-programmes.aspx)**

Modules

Course modules

Each module is a mix of theory, practical example and coursework. Each module requires around 3 days of classroom tuition. The third year is a major project on an in-depth industrial project, managed using the principles and tools taught in the earlier two years.

Modules (MSc and Diploma)	Credits
Introduction to Industrial Project Management This module introduces the course and covers introductory material, paying particular focus to topics such as (i) Project and Project types, (ii) Business Case and Benefits Management, (iii) Project Selection, (iv) Project lifecycle and (v) Company strategy.	10
Planning This module introduces the ideas behind planning of industrial projects. This comprises an overview of all aspects of project management with particular focus on risk management, sponsorship, project organisation and scope definition. It puts strong emphasis on the importance of front end planning on the overall project success.	20
Controls and Implementation This module introduces the concepts required to control a project. This includes topics such as: scope, cost and schedule control. In addition the implementation of a project is considered through topics like: recruitment, procurement, safety, handover and project closure.	10
Project skills This module will enhance students' skills for running projects. In particular areas such as leadership, communication, problem solving, influencing and expectations management are covered.	10
Project Delivery Strategy This module looks to cover areas that are required for working with all parts of a project team. This will include topics such as identity of project team, contracts and how location of project influences the team.	10
Advanced Planning and Financial Management This module looks to extend planning and financial management techniques. This will include reviewing and challenging the business cases, value improvement and operational excellence methods, set based design and modular thinking, along with standardisation and re-use in design with an emphasis in sustainable practices. The financial management will cover topics such as accounting procedure, decision support, depreciation and asset management.	20
Advanced Controls This module extends the idea of project controls to larger projects. The areas of scope, cost and schedule are still key, but techniques to cope with these topics on much larger scale are shown. Some of the detailed topics considered are advanced cost estimation, earned value, progress tracking curves and advanced (quantitative) risk management.	20
Advanced Implementation This module takes industry examples to show how techniques learned in earlier modules have been made specific to that industry.	10
Business Case This module will consolidate the other taught modules and to show how the topics covered can be used to influence the business case. Topics include change management and value chain analysis.	10
Major Project up to 1 year (MSc only) This module involves the student taking a large project or a number of smaller projects with supervision from both industrial and academic staff and creating set of documents which will include a summary of the whole project lifecycle. Part of the assessment is by presentation and report.	60

Fees and funding

Tuition fees

Fees stated below are for the duration of the course.

Home/EU students (2015/16)

	Fees
Postgraduate Masters	£9,700
Postgraduate Diploma	£5,800
Postgraduate Certificate	£2,900

Learn more about fees and funding (/postgraduate/pgt-fees/fees.aspx)

For further information contact the School directly or email **sfo@contacts.bham.ac.uk (mailto:sfo@contacts.bham.ac.uk)**

Entry requirements

You should be a practising project manager working in a relevant industrial sector.

Learn more about **entry requirements (http://www.birmingham.ac.uk/students/pg/requirements)**

International students
We accept a range of qualifications from different countries – learn more about **international entry requirements (http://www.birmingham.ac.uk/students/pg/requirements/international)**

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/EPS066.htm)

Related links

Postgraduate degree courses - School of Chemical Engineering (/schools/chemical-engineering/postgraduate/index.aspx)

Taught postgraduate programmes - School of Chemical Engineering (/schools/chemical-engineering/postgraduate/taught-programmes.aspx)

Related news and events

Chemical Engineering postgraduate Tullow Group scholarship scheme (/schools/chemical-engineering/news/archive/Chemical-Engineering-postgraduate-scholarships.aspx)

Learning and teaching

A mixture of lectures, seminars and discussion. A lot of emphasis is placed on student interaction and also work place learning (where appropriate) and use of enquiry based learning.

Skills gained

- A sound and broad understanding of the principles, practices and tools available for use in project management, particularly in an industrial context
- Ability to critically assess when implementation of novel or more traditional approaches in project management is appropriate
- Abilility to make sound decisions in complex and unpredictable situations
- Capability in transferable skills to communicate effectively and work as part of a multinational and multidisciplinary team
- Capacity to be responsible for their continuing personal and professional development and for acting in a professional and ethical manner
- Obtain and process (possibly conflicting) information from a wide range of courses, and be aware of the limitations of the potential solutions
- Selecting and using appropriate ICT, recognising the capabilities and limitations of computers based methods

Careers

The course is aimed at people currently in work (in an industrial setting) and should provide significant development within their existing career path or offering an opportunity to change to a more project orientated career.

Assessment

Assessment is predominately by coursework, but also with assessed tutorials and presentations in some cases. The major project is assessed via report and presentation.

Employability

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.

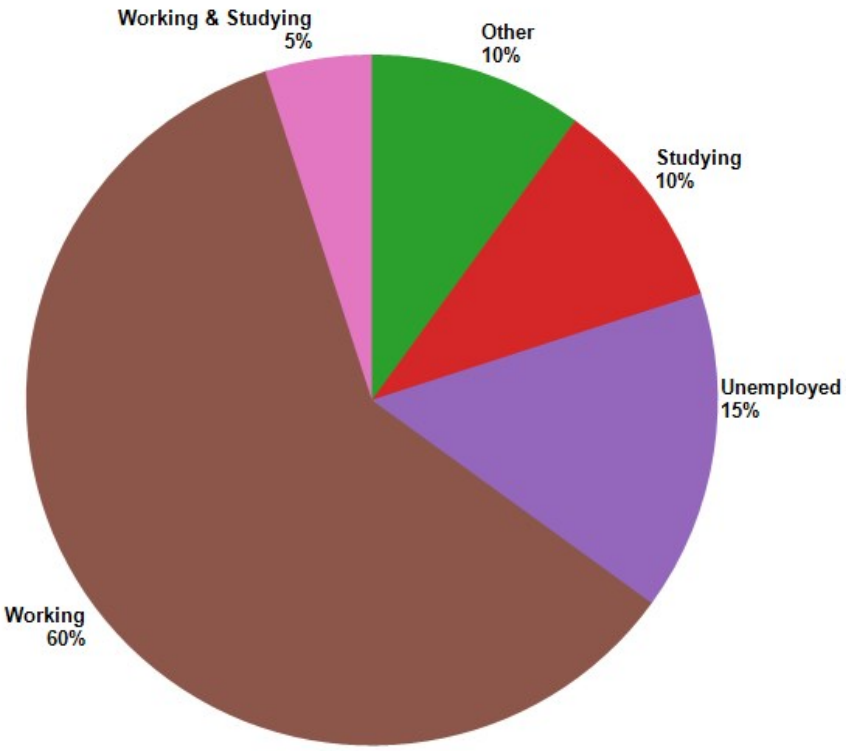
Our unique careers guidance service is tailored to your academic subject area, offering a specialised team (in each of the five academic colleges) who can give you

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:

- BP
- British Gypsum
- Citi
- Coca-Cola
- Foster Wheeler Energy
- Jacobs Engineering
- Johnson Matthey
- KBR
- Pepsico
- RBC Capital Markets

Examples of occupations:

- Chemical Engineer
- Development Engineer
- Finance Analyst
- Market Analyst
- Performance Engineer
- Process Engineer
- Process Development Technologist
- Process Support Engineer
- Team Leader
- Test and Validation Engineer

Further study - examples of courses:

- MRes Chemical Engineering Science
- MSc Advanced Chemical Engineering
- MSc Biochemical Engineering
- MSc Chemical Engineering
- PhD Chemical Engineering
- PhD Formulation Engineering
- PhD Regenerative Medicine
- PGCE Mathematics

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

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