

Road Management and Engineering Masters/MSc/Diploma/Certificate

Postgraduate degree programme Road Management and Engineering Masters/MSc/Diploma:

The Road Management and Engineering programmes are designed to equip participants with the skills and knowledge of management procedures for the planning, appraisal, design, construction and maintenance of road networks.

The programmes are relevant to conditions found in both developed and developing countries and are suitable for road engineers and civil engineering graduates who want to pursue a career in road management.

Leading to:

- Master of Science degree, MSc (12 months - full time)
- Diploma (8 months)
- PG Certificates for selected intensive courses from the Masters programme

Many of the 1000 or more students who have graduated from our road management and engineering programme go on to great things and some road authorities around the world are now headed by our former graduates

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>

Course fact file

Type of Course: Continuing professional development, taught

Study Options: Full time, part time

Duration: 1 year full-time, or on a part-time basis over 24 or 36 months

Start date: September

Related courses

[Civil Engineering postgraduate degree courses \(/schools/civil-engineering/postgraduate/index.aspx\)](/schools/civil-engineering/postgraduate/index.aspx)

[HDM4 course in Road Management \(/postgraduate/courses/cpd/civil-engineering/hdm4.aspx\)](/postgraduate/courses/cpd/civil-engineering/hdm4.aspx)

[iRAP course in Road Safety \(/postgraduate/courses/cpd/civil-engineering/irap.aspx\)](/postgraduate/courses/cpd/civil-engineering/irap.aspx)

[Rural Roads for Development course \(/postgraduate/courses/cpd/civil-engineering/rural-roads.aspx\)](/postgraduate/courses/cpd/civil-engineering/rural-roads.aspx)

[Senior Road Executives Programme \(/postgraduate/courses/cpd/civil-engineering/senior-roads-executive.aspx\)](/postgraduate/courses/cpd/civil-engineering/senior-roads-executive.aspx)

[Taught postgraduate degree courses - School of Civil Engineering \(/schools/civil-engineering/postgraduate/taught-degrees.aspx\)](/schools/civil-engineering/postgraduate/taught-degrees.aspx)

Contact

Admissions Team:

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[School of Civil Engineering \(/schools/civil-engineering/index.aspx\)](/schools/civil-engineering/index.aspx)

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

Details

This programme in its current form is a natural progression from our previous programmes in highway engineering, management and traffic engineering that have gained an international reputation over the past 25 years. Its purpose is to provide advanced training for engineers aspiring to higher or middle-management positions in either private or public sector road engineering organisations. The course attracts participants from all over the world including practicing engineers who wish to gain knowledge of the state of the art in road management or change career paths as well as recent graduates who want to pursue a career in road management.

The taught part of the programme consists of 6 individually assessed modules of 20 credits each, each run over two intensive weeks. Engineering oriented modules cover the principles of road design, safety, materials, and the structural design of road pavements. Management focused modules complement the range of subjects taught in the engineering oriented modules and include the environment, sustainable transport, road asset management, road financing and economics.

- Modules are delivered via a variety of lectures, tutorials, team exercises, projects and site visits.
- Those taking the MSc RME programme undertake a research project which accounts for 60 credits (one third of the overall programme).
- An important feature is flexibility of delivery, allowing primarily UK-based practising road engineers to attend on a part-time basis.

Programme content

The programme consists of taught modules and a research project. Student development is through a combination of lectures, tutorials, site visits and major and minor

projects. Student-centred, computer-based and flexible learning elements. Coursework and oral presentations are required for many projects.

The programme is also designed with part-time students in mind, and is formulated specifically to facilitate the career development of individuals working in the roads sector and meet the demands of both the UK and overseas road industry. Part-time students take the same modules as full-time students, but can opt to take the programme over a two or three-year period. To facilitate this, each module is delivered two separate one-week blocks over the course of a semester.

The syllabus includes:

- Financial management
- Research and communication skills
- Sustainable road transport
- Road design
- Road safety
- Road asset management
- Road economics
- Pavement engineering

Interested? Further details can be obtained from the admissions team:

Tel: +44 (0) 121 414 5089 / 5050

Email: pga-civeng@bham.ac.uk (<mailto:pga-civeng@bham.ac.uk>)

Related links:

- [Civil Engineering postgraduate degree courses \(/schools/civil-engineering/postgraduate/index.aspx\)](/schools/civil-engineering/postgraduate/index.aspx)
- [Taught postgraduate degree courses - School of Civil Engineering \(/schools/civil-engineering/postgraduate/taught-degrees.aspx\)](/schools/civil-engineering/postgraduate/taught-degrees.aspx)
- [Road Management and Engineering newsletter \(pdf 2.8 MB\) \(/Documents/college-eps/civil/admissions/road-management-engineering-newsletter.pdf\)](/Documents/college-eps/civil/admissions/road-management-engineering-newsletter.pdf)

Why study this course

Our Vision

To continue to uphold the University's international recognition as the premier university group specialising in road management and engineering. To contribute to the betterment of road management by

- originating innovative research
- transferring research knowledge to practice
- responding effectively to the road industry needs
- educating and training future middle and senior road managers and engineers

Modules

Core Modules (and credits)

- Road Asset Management (20)
- Individual Project (60)
- Pavement Engineering (20)
- Sustainable Road Transport (20)
- Road Design (20)
- Road Economics and Financing (20)
- Core Skills (10)

Choose one of the following options

- Road Safety (10)
- Rural Roads (10)

Fees and funding

Tuition fees for home/EU students (2015/2016)

Full-time fees

Postgraduate Masters £6,840

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Postgraduate Diploma £4,560

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Postgraduate Certificate £2,280

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Part-time programmes: Most part-time programmes run for two years and their fees are one half of the standard full-time programme fees.

Tuition fees for international students (2015/2016)

- International student tuition fees are set at £17,960.

For further information please view the [fees for international students \(/International/students/finance/fees.aspx\)](/International/students/finance/fees.aspx) page.

Part-time programmes: 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 \(/postgraduate/pgt-fees/fees.aspx\)](/postgraduate/pgt-fees/fees.aspx) apply

Learn more about [fees and funding](#)

[\(/postgraduate/pgt-fees/index.aspx\)](#)

Scholarships and studentships

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

Paviors Award - The Worshipful Company of Pavors, London, provide support for British students.

Overseas candidates may contact organisations such as the British Council, the Department for International Development (UK), World Bank, UNDP, Association of Commonwealth Universities and International Road Federation (IRF) for assistance with funding. This Programme is approved for postgraduate training by these organisations.

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

Entry requirements

The basic requirement is a good Honours degree in an appropriate discipline (for example, Engineering, Sciences, Geology, Geography or Mathematics) and evidence of adequate knowledge of English. However, practical experience may also be taken into account.

Learn more about [entry requirements \(http://www.birmingham.ac.uk/students/pg/requirements\)](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 \(http://www.birmingham.ac.uk/students/pg/requirements/international\)](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 \(http://www.birmingham.ac.uk/students/courses/postgraduate/apply-pg/index.aspx\)](http://www.birmingham.ac.uk/students/courses/postgraduate/apply-pg/index.aspx)

[Apply now \(https://pga.bham.ac.uk/lpages/EPSo4o.htm\)](https://pga.bham.ac.uk/lpages/EPSo4o.htm)

Related links

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[Taught postgraduate degree courses - School of Civil Engineering \(/schools/civil-engineering/postgraduate/taught-degrees.aspx\)](#)

[Road Management and Engineering newsletter \(pdf 2.8 MB\) \(/Documents/college-eps/civil/admissions/road-management-engineering-newsletter.pdf\)](#)

[Postgraduate degree courses in Civil Engineering at Birmingham \(pdf 1 MB\) \(/Documents/college-eps/civil/brochure/postgraduate-courses-civil-engineering.pdf\)](#)

Related news and events

[Study hard and remember to network says new CIHT Fellow \(/schools/civil-engineering/news/CIHT-fellow.aspx\)](#)

[Professor Chris Baker - International expertise in sustainable transport \(/schools/civil-engineering/news/archive/sustainable-transport.aspx\)](#)

[The William E Lardner Award in Civil Engineering \(/schools/civil-engineering/news/william-lardner-award.aspx\)](#)

Learning and teaching

The primary teaching interest is to provide postgraduate taught programmes (MSc, Diploma and Certificate) for both practising road engineers and Civil Engineering graduates that want to pursue a career in road management.

The programmes are designed to provide current knowledge in management procedures for the planning, appraisal, design, construction and maintenance of road networks. The programmes will be relevant to conditions found in both the developed and the developing countries. A key feature of the programmes delivery is flexibility that allows primarily UK-based practicing road engineers to attend the programmes on a part-time basis.

Related staff

[Professor Felix Schmid \(/staff/profiles/civil/schmid-felix.aspx\)](#)

[Dr Harry Evdorides \(/staff/profiles/civil/evdorides-harry.aspx\)](#)

Employability

University Careers Network

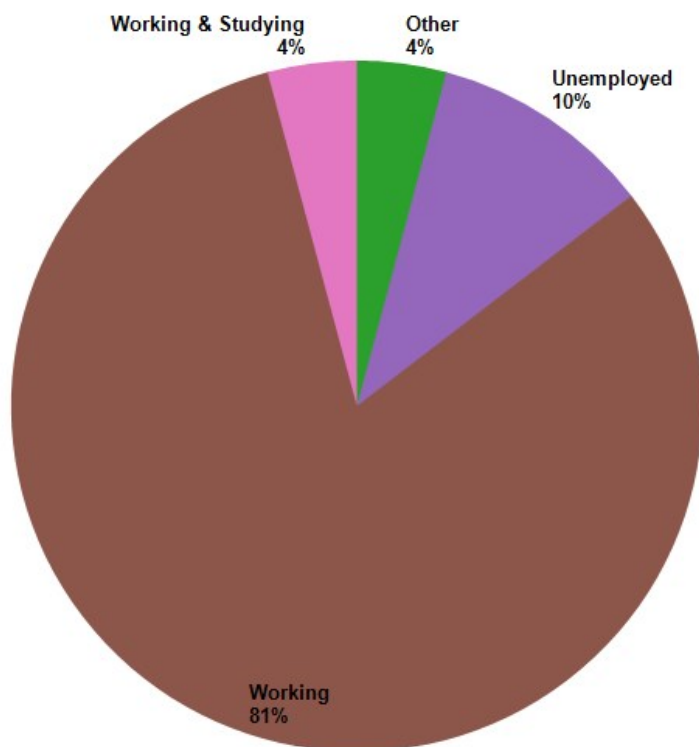
Preparation for your career should be one of the first things you think about as you start university. Whether you have a clear idea of where your future aspirations lie or want to consider the broad range of opportunities available once you have a Birmingham degree, our Careers Network can help you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

- AECOM
- Amey
- Arup
- Atkins
- British Army
- Hyder Consulting
- Interserve
- Laing O'Rourke
- Mouchel
- Network Rail

Examples of occupations

- Assistant Civil Engineer
- Consultant Engineer
- Graduate Bridge Engineer
- Graduate Leader
- Graduate Site Engineer
- Graduate Tunnelling Engineer
- Officer Cadet
- Site Engineer
- Structural Engineer
- Water Engineer

Further study - examples of courses

- MRes Materials and Sustainable Technology

- MRes Science and Engineering of Materials
- MSc Computer Science
- MSc Construction Management
- MSc Environmental Technology
- MSc Railway Systems Engineering and Integration
- MSc Road Engineering and Management
- PhD Civil Engineering

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

Professional accreditation

The MSc Road Management and Engineering course has been approved by the Institution of Civil Engineers, Institution of Structural Engineers, Chartered Institution of Highways and Transportation, and Chartered Institute of Building.¹

This degree is accredited as meeting the requirements for Further Learning for a Chartered Engineer (CEng) for candidates who have already acquired a Accredited CEng (Partial) BEng(Hons) or an Accredited IEng (Full) BEng/BSc (Hons) undergraduate first degree. See www.jbm.org.uk (<http://www.jbm.org.uk>) for further information. Individual enquiries should be referred to the CIOB.