

## Structural Engineering and Practice Masters/MSc/Diploma

### Postgraduate degree programme Structural Engineering and Practice Masters/MSc/Diploma:

This Masters (MSc) and PG diploma postgraduate degree course in Structural Engineering and Practice is offered to civil engineering and mechanical engineering related graduates wishing to study structural engineering within a civil engineering context. This programme offers the opportunity to widen knowledge in the area of Structural Engineering by including structural engineering practice, wind engineering, structural behaviour (both static and seismic), geotechnical engineering and industrial research topics.

This opens up a wide range of career opportunities, as many of the techniques are applicable both within and outside the civil engineering design and construction industry.

**[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>**

#### 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 months

**Start date:** September

#### Related courses

**[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)**

#### Contact

Admissions administrator

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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 provides a solid basis for a career in structural engineering. Comprising lectures, seminars, tutorials, workshops, coursework, group project work and site visits, the development of personal, interpersonal and project management skills, and provides a fundamental understanding of the social, economic, resource management and legal frameworks within which civil engineering projects take place.



#### Related links

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#### Why study this course

Typical graduates will be able to deal with complex Structural Engineering issues, making sound judgements in the absence of complete information, and will be able to communicate their conclusions clearly to specialist and non-specialist audiences.

They will be self-motivating and able to act autonomously and will have the qualities and transferable skills necessary to exercise initiative and personal responsibility, to make decisions in complex and unpredictable situations, and to have the independent learning ability required for the continuing professional development and the civil/structural civil engineering practice.

The high level of numeracy of graduates, and their skills in problem solving, research, team working, and communication and information technology, equip them for successful careers outside as well as within the construction industry.

#### Modules

##### Modules (and credits)

- Finance and Core Skills (20)

- Individual Research Project (60)
- Advanced Structures and Design (20)
- Foundation Engineering (20)
- Seismic Engineering (20)
- Structural Engineering and Practice (20)
- Forensic Engineering (20)

## Fees and funding

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

#### Full-time fees

Postgraduate Masters £6,840

Postgraduate Diploma £4,560

#### 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 \(http://www.birmingham.ac.uk/international/students/finance/fees.aspx\)](http://www.birmingham.ac.uk/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

For information about fees please contact the School directly

Learn more about [fees and funding](http://www.birmingham.ac.uk/postgraduate/pgt-fees/fees.aspx)

[\(/postgraduate/pgt-fees/fees.aspx\)](http://www.birmingham.ac.uk/postgraduate/pgt-fees/fees.aspx)

#### Scholarships and studentships

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

For further information contact the School directly or email [financialsupport@bham.ac.uk \(mailto:financialsupport@bham.ac.uk\)](mailto:financialsupport@bham.ac.uk)

## Entry requirements

2.1 relevant degree.

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)

[\(/http://www.birmingham.ac.uk/students/pg/requirements/international\)](http://www.birmingham.ac.uk/students/pg/requirements/international)

[Standard English language requirements \(/postgraduate/requirements-pgt/international/index.aspx\)](http://www.birmingham.ac.uk/postgraduate/requirements-pgt/international/index.aspx) apply

## How to apply

Please contact Dean Moody for further information.

**Tel:** +44 (0)121 414 5089

**Email:** [d.moody@bham.ac.uk \(mailto:d.moody@bham.ac.uk\)](mailto:d.moody@bham.ac.uk)

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 \(https://pga.bham.ac.uk/lpages/EPSo95.htm\)](https://pga.bham.ac.uk/lpages/EPSo95.htm)

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[Postgraduate degree courses in Civil Engineering at Birmingham \(pdf 1 MB\) \(/Documents/college-eps/civil/brochure/postgraduate-courses-civil-engineering.pdf\)](http://www.birmingham.ac.uk/Documents/college-eps/civil/brochure/postgraduate-courses-civil-engineering.pdf)

### Related news and events

[The William E Lardner Award in Civil Engineering \(/schools/civil-engineering/news/william-lardner-award.aspx\)](http://www.birmingham.ac.uk/schools/civil-engineering/news/william-lardner-award.aspx)

The taught element takes place between September and May. It is possible to study full-time or part-time, as modules are delivered in intensive week-long blocks. This means that students can combine work and study, attending university for these weeks only. A student's performance is assessed by written examinations and individual coursework.

The research project report is submitted and presented (end of August/early September) for assessment. Students must normally reach a satisfactory standard in the written examinations to be permitted to proceed to the individual project.

Formal examinations are normally held during the week immediately before the Spring term, in early January, and during May; submission of the project thesis is usually due by early September.

Transfer between Postgraduate Diploma and MSc is possible upon completion of the Diploma for a Diploma student who satisfies the MSc requirements. The Diploma may be awarded to an MSc student who fails to complete the individual project.

## Employability

The high level of numeracy of graduates, and their skills in problem solving, research, team working, and communication and information technology, equip them for successful careers outside as well as within the construction industry.

## University Careers Network

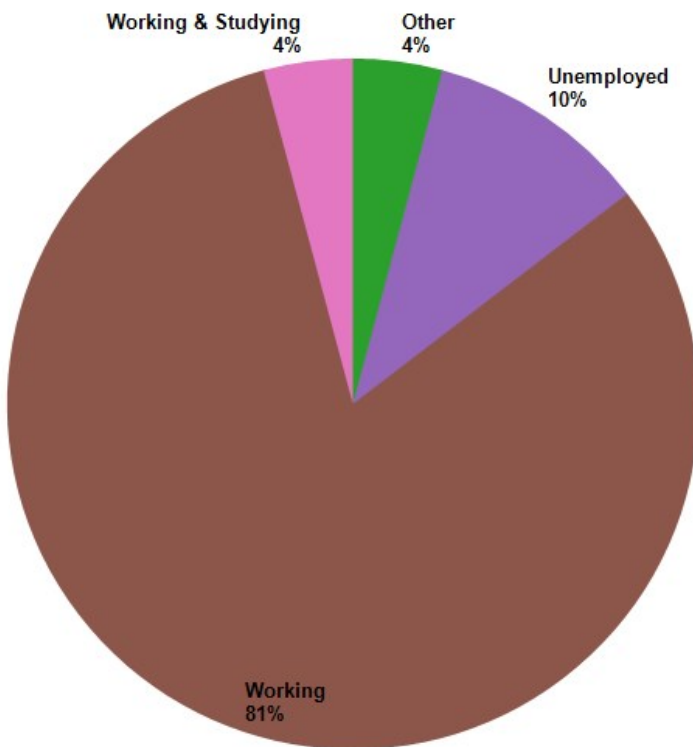
Preparation for your career should be one of the first things you think about as you start university. Whether you have a clear idea of where your future aspirations lie or want to consider the broad range of opportunities available once you have a Birmingham degree, our Careers Network can help you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

