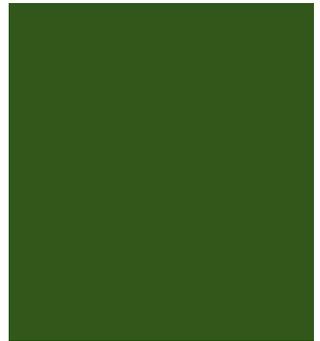


Undergraduate Civil Engineering



Profile: Michelle McDowell

BSc 1984, Honorary DEng 2012
Chair, Civil and Structural Engineering, BDP

Michelle McDowell has become one of the country's most admired civil engineers, leading many high-profile and award-winning projects. Her career has seen her work on the major refurbishment of the Royal Albert Hall and the BBC's new regional headquarters in Birmingham.

She was awarded an MBE for services to the construction industry in 2010 and in 2011 was named the Veuve Cliquot Business Woman of the Year, a prestigious award which celebrates entrepreneurs and business women.



Why study civil engineering at Bristol?

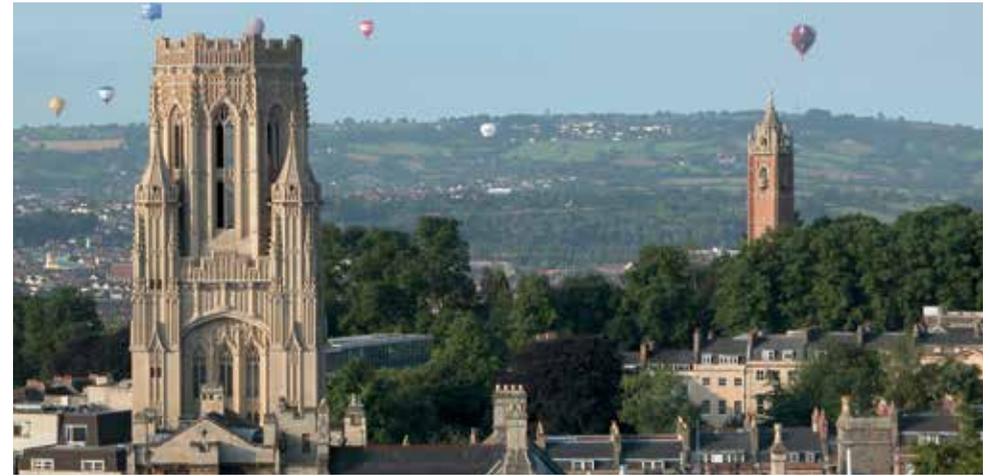
Civil engineers shape the basic structure of the world we live in. They are responsible for the creation and maintenance of much of the infrastructure that developed and developing countries take for granted. Every reservoir, dam, bridge, road, tunnel and large building is designed and built by civil engineers.

Bristol's Department of Civil Engineering has an international reputation for quality, with excellent teaching and research ratings. You will learn under the guidance of leading international researchers. The course structure is continually updated to reflect changing knowledge and the latest advances in civil engineering around the world. Working with professional institutions, we look five to ten years ahead to anticipate the emerging needs and future shape of civil engineering. If you want to make a difference to the world and to the quality of people's lives, then this is the course for you.

Our degree courses will develop your technical and managerial skills, enabling you to be future leaders in the civil engineering industry. As a small department, one of six in a strongly integrated faculty, we offer a friendly and supportive learning environment. The small number of students admitted each year (around 90) means that we can get to know you individually and give you the kind of personal attention that is necessary for studio-based design teaching.

517

average UCAS tariff. You will be studying with some of the best students in the country



What will I study?

Single Honours courses

| | |
|---|------|
| BEng Civil Engineering, three years | H205 |
| MEng Civil Engineering, four years | H200 |
| MEng Civil Engineering with Study Abroad, four years (entry by transfer from H200 at the end of the first year) | |
| MEng Civil Engineering with Study in Continental Europe, four years | H201 |

Our aim is to produce civil engineers who can influence the world we live in. You will learn about:

- environmental and sustainable engineering;
- designing and building major structures;
- project management;
- community planning and liaison;
- disaster management;
- urban infrastructures.

The first two years of all our civil engineering courses cover the basics of engineering analysis and design. This includes structures, mathematics, soil and fluid mechanics, materials, computing and surveying, along with optional units such as systems and technologies for smart cities.

Design and systems thinking are at the heart of the course at Bristol. For example, in the first year you will have to find a creative solution for designing

and making a model bridge. Second-year design includes steelwork and reinforced concrete. A water resources group project, in which you have to design a water supply system including a dam in mid-Wales, is the highlight of the third year. There is a group design project in the fourth year based on real design problems which have emerged through our links with industry. Students have been recently associated with work on the Second Severn Crossing, coastal protection schemes, and flood forecasting for the Environment Agency.

In years three and four, you can study specialist areas through optional units such as Sustainable Construction, Sustainable Systems, Wind and Marine Power, and Earthquake Engineering. The third year offers a major research project in which you can choose a problem related to one of the research areas of the department. Units in Professional Studies will widen your knowledge of the business, management and legal sides of the construction industry.

Students on the MEng with Study in Continental Europe or Study Abroad degrees will spend the third year at a partner university in Europe or further afield. Your study plan will be arranged on an individual basis, depending on where you spend the year abroad – it may include projects and

specialist subjects that are not taught at Bristol. The three-year BEng Civil Engineering is of the same high quality as the MEng degrees, and is particularly attractive to international students who may not require a four-year MEng degree to qualify as professional engineers in their own countries. It is also attractive for home students who do not initially want to commit to a four-year degree course.

Our course is demanding, but you will be guided by first-class engineers in a friendly and supportive environment. You'll be encouraged to ask questions and challenge current thinking. The department provides an excellent teaching environment using a mixture of lectures, example classes, guided reading, computer-assisted learning, site visits, group work in laboratories and projects. The course is assessed through a combination of written examinations, reports and oral or poster presentations.

The department's research activity provides a stimulating environment in which to study civil engineering. Our geotechnical, structural and hydraulic engineering facilities are world class and students use these in their learning. The earthquake shaking table, the most advanced in Europe, is the heart of the Earthquake Research Centre which can test structures up to 15m high.

It is important that you enjoy your university education and feel supported throughout; you will have a personal tutor, with whom you can discuss academic or personal matters on an individual basis. Through our dedicated Industrial Liaison Office (ILO), you will be assigned an industrial mentor who is a senior engineer working in and around Bristol. This scheme will provide you with an opportunity to build up contacts, experience practical activities and to engage with the profession. The ILO also creates engineering-specific industrial links for students including internship opportunities and offers a regular series of industry-focused lectures and seminars.

30

industrial tutors give you experience of design offices and construction sites



What are my career prospects?

Bristol graduates are recognised as being among the best in the country, and are actively sought after by top employers. We regularly feature near the top of the national graduate employment tables.

Major recruiters of graduates include:

- consultants, who plan and design projects and may supervise or plan implementation;
- contractors, who organise the execution of designs on sites, oversee labour force and materials, and consider time, cost and safety constraints;
- utility companies and local authorities – eg water, highways and drainage – who may act in both design and site-management capacities;
- The Army, particularly the Royal Engineers;
- other large engineering industries, eg petroleum and mining, public transport, power generation and supply companies.

The University's Careers Service provides careers information, advice and guidance for all students. This includes help on writing CVs, cover letters and application forms, setting up mock interviews, as well as organising relevant workshops, talks and presentations.

£24k

average salary six months after graduating*

*Destination of Leavers from Higher Education survey 2011/12

93%

of graduates go on to work or further study within six months of completing their course*

*Destination of Leavers from Higher Education survey 2011/12



Making your application

Entrance requirements

Typical offer for BEng/MEng

Civil Engineering

Please visit bristol.ac.uk/ug15-civilengineering for other qualifications

A-levels A*AA (contextual offer AAA[†]) including Mathematics and Physics, one of which at grade A*

IB Diploma 38 points overall (contextual offer 37[†]) with 6, 6, 6 at Higher level including Mathematics and Physics

Access Pass Access to HE Diploma in a relevant subject with at least 30 credits at Distinction in Mathematics and Physics units and 15 credits at Merit (please contact Undergraduate Admissions for guidance on suitable units)

English Language Profile E*

GCSEs Grade C or above in English Language, Mathematics and Science

Selection UCAS or Common Application

Part-time study Not available

Deferred entry Welcomed

*For details of English language profiles

please visit bristol.ac.uk/study/

[undergraduate/language-requirements](http://bristol.ac.uk/study/undergraduate/language-requirements)

†For information on contextual offers please visit

bristol.ac.uk/study/undergraduate/apply/#typical-contextual-offers

We will look closely at your potential academic ability (based on previous examination results and predicted grades) and intellectual motivation, at what you say about your personal interests including your extracurricular activities and positions of responsibility, and the report provided by your academic referee. In particular we are looking for:

- your interest in and commitment to the subject;
- evidence of clear thinking and understanding;
- problem-solving and analytical skills;
- clear evidence of relevant reading or research into the subject area;
- and your standard of written English.

Additional criteria which we consider are your response to any challenges faced, teamwork skills and how appropriate our civil engineering course is in relation to your declared interests and aspirations.

Further information

Find out more the Department of Civil Engineering:

bristol.ac.uk/civilengineering.

The Institution of Civil Engineers: www.ice.org.uk

The Institution of Structural Engineers:

www.istructe.org

Year in Industry (YINI): www.etrust.org.uk



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bristol.ac.uk/citybristol

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