



**Civil Engineering**  
MEng (Hons) and BEng (Hons)



UNIVERSITY OF  
**BATH**

**Civil & Architectural Engineering**  
MEng (Hons)

## What is Civil Engineering?

Civil engineering is a professional engineering discipline that deals with the design, construction and maintenance of the natural and built environment. Civil engineers design and make buildings, bridges, roads, railways, airports, tunnels, canals, dams, and offshore structures; they shape the earth and the coastline, and they provide the infrastructure for the supply of clean water and sustainable energy. One of the biggest challenges is to do this in a way that is sustainable, which calls for creative and imaginative engineers. By educating civil engineers in a joint Department of Architecture & Civil Engineering, we bring out these abilities, which are essential for engineering a safe and sustainable future for everyone.

## Why study Civil Engineering at Bath?

### Joint Department of Architecture & Civil Engineering

For the last 50 years the Department of Architecture & Civil Engineering at the University of Bath has been educating architects and engineers to work together to produce buildings and civil engineering structures of the highest quality. We are uniquely placed to educate our students in all facets of civil engineering design. Today's engineers require a broad range of skills encompassing sciences, humanities and arts. It is this breadth, and the positive links between theory and practice, that characterise our civil engineering programmes.

### Excellent reputation for teaching and research

Teaching and research quality is recognised as nationally and internationally leading across the Department and all lecturers are actively involved in research. Much of this research feeds directly into our undergraduate teaching, conveying the excitement of the most recent developments in civil engineering. More importantly, the forward-looking, imaginative and investigative attitudes that drive this world-leading research are instilled in our students so that, as graduates, they too are motivated and prepared to engage in world-leading engineering. Our students have access to excellent laboratory facilities for work on structures, hydraulics, soils and natural building materials, as well as timber workshop facilities and extensive design studios and computing laboratories. A team of technicians and postgraduate researchers are on hand to support students in designing, setting up and running laboratory test programs. As well as the core academic staff, we have nearly a hundred visiting tutors from practice who help in studios during design projects, give one-off lectures and seminars, and participate in critiquing students' design work.

### Close student community

The Department has an annual intake of over 100 students into its civil engineering programmes. Group project work, a personal tutor system, site visits and a field course ensure that staff and students get to know each other. Each student is allocated a personal tutor, available to discuss personal or academic matters in confidence. Our tutors take a keen interest in the welfare and academic progression of their tutees through to graduation day, and often keep in contact through their subsequent careers. There is a strong sense of working together to a common purpose, and a significant number of students remain in the Department as postgraduate researchers.

**Top 3 in the 2016**  
*Complete University Guide*  
**and the Guardian University**  
*Guide 2016*



“I chose the University of Bath for its design-orientated programme. Working alongside architects and other engineers throughout the programme sets Bath apart from most other universities, as well as its strong sporting reputation, innovative fields of research and strong links to industry. The quality of teaching at Bath is well renowned in the civil engineering industry and that’s really reflected throughout the programme so far. I’m yet to find a lecturer that isn’t happy to take the time to talk to you.

“I got the chance to take a year in industry through my degree. The University has a great reputation in industry so a lot of companies’ doors are open to you. Getting the chance to apply the things you’ve learned so far to real-life projects gives a great perspective to the rest of your degree and helps out financially too.”

**Ryan Jones**  
MEng Civil Engineering

## Design studio project experience

Fundamental to the ethos of our Department is the premise that exemplary, meaningful and enduring building design is the result of effective collaboration between architects and engineers. The design projects enable the knowledge developed in lectures and laboratory work to be applied and reinforced in realistic design situations. Architecture and Civil Engineering students work together on interdisciplinary group design projects throughout their studies. Collaborative projects are developed through drawings, models and calculations. Developing this working relationship mirrors the real-world relationship between the two disciplines, giving Bath students a sophisticated and well-rounded approach to apply in their future careers. Our students learn from and influence each other, exploring aspects that the others may not have considered, and pushing the boundaries of their design project work.

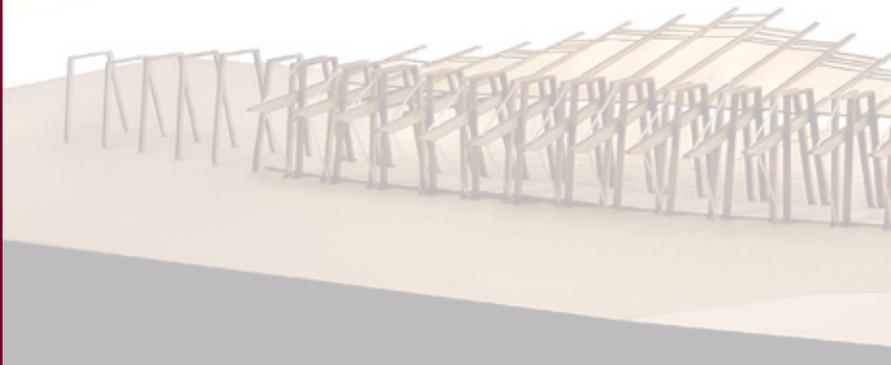
## Programmes

The Department offers three programmes of study: BEng in Civil Engineering, MEng in Civil Engineering, and MEng in Civil & Architectural Engineering, all of which are accredited by the Institution of Civil Engineers and the Institution of Structural Engineers for Chartered Engineer status.

The two MEng programmes, each with four academic years, fully satisfy the educational base to become a Chartered Engineer, whilst the three academic year BEng programme needs to be followed by accredited further learning, usually a specialist MSc.

The MEng in Civil & Architectural Engineering explores those aspects of a building that affect its internal environment and energy use through the relationship between structural and architectural design, while the MEng in Civil Engineering takes the understanding of infrastructure design to a more advanced level.

The principles behind these two specialisms are applied in substantial design projects, many of which involve working in close collaboration with architects. All design projects have major involvement from leading practitioners, and are based on current design challenges. Both MEng programmes include a range of option units linked to the research expertise in the Department, and its application in practice.



## Programme structure

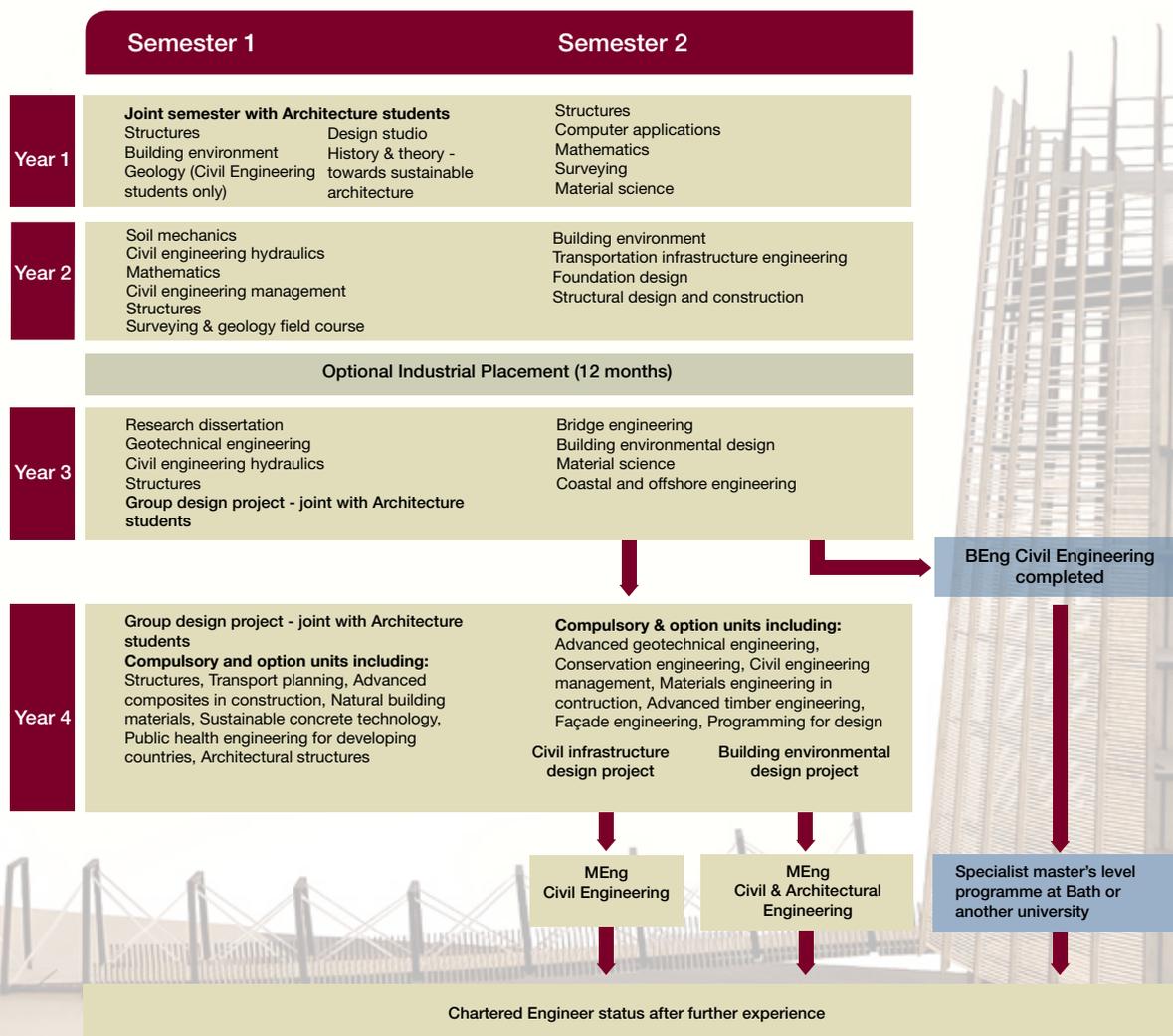
In the first semester of the first year our civil engineering and architecture students are mostly taught together, providing all students with a broad understanding of the essential principles of design and realisation. All our programmes include the opportunity of a year in industry between the second and third academic years.

Teaching in the Department is mainly through lectures, tutorials, laboratories and fieldwork, with design projects carried out in purpose-built studios. All degree programmes contain a suitable assessment mix of examinations, project work and coursework, and include a substantial research dissertation in the third year.

The three programmes have the same structure in the first three years, enabling students to change programme as their knowledge and experience develops. Both an industrial placement and the dissertation in third year can influence a student's final choice of degree.

## Industrial placement opportunities

An optional placement year after the first two years of study enables students to gain valuable experience with a variety of companies working at the forefront of civil engineering design or construction. A placement may involve working on a construction site as a site engineer for a contractor, in a design office of a consulting engineering practice, or a mixture of the two. This industrial experience is recognised as counting towards the postgraduate training required for gaining Chartered Engineer status. We have a dedicated Faculty placements team to guide both students and employers through all stages of the placement process, whether in the UK or overseas. Our students opting for overseas opportunities have successfully obtained placements worldwide. During the placement period, our team makes regular contact with students and employers to gather feedback, monitor progress and ensure student wellbeing. Many of our established placement companies sponsor students, and offer graduate employment following their placement.





“I am currently on my Industrial Placement year at Mace, working as a Construction and Project Manager within the Contracting side of the company. I worked first at Battersea Power Station and am now at the South Bank Tower. I have been able to experience and contribute to the construction of a multi-million pound project with a very challenging interface and existing buildings around it. I have most enjoyed being a part of a large team, being able to work with a variety of people and use so much of what I learnt at Bath in a way that has such a satisfying and rewarding outcome as the handover of a project.

“Making the decision to take a year out and work was one of the wisest I’ve made. It has changed my perspective on work and the meaning of my degree so much that I know that I will be a vastly improved person by the time I return to Bath. It has put my degree into context and provided me with a platform to ask questions and see how things that work in theory do (and often don’t) work in real life.”

**Rachael Broad**  
**MEng Civil Engineering**

## Excellent career prospects

80-90% of our graduates go directly in to work in the civil engineering profession, with the remainder going into related employment or further academic study. We believe this is because our graduates are creative civil engineers with a profound technical understanding across the breadth of civil engineering, able to lead projects informed by a holistic outlook on design. The increasing sophistication of building technologies means that all major projects are designed by teams, and teamwork is a skill that Bath graduates develop throughout their programme. Graduates work in a very wide range of companies and roles within the construction industry; these include project management, environmental design and management, academic research based in both industry and universities, and construction management. The dominant occupation, however, is the design of civil and structural engineering and buildings.

Civil engineers typically earn between £20,000 and £80,000 per year. Graduate salaries are likely to start in the range of £20,000 - £25,000, and increase as experience and professional qualifications are gained.

## Entry requirements

A typical offer for all three programmes is A\*AA at UK A-level including Maths, or 36 points in the International Baccalaureate with 6 in Higher Level Maths. We make equivalent offers for a wide range of qualifications from outside the UK. Many A-level applicants are able to take a fourth A-level; we do not include General Studies in our offers, and we do not favour students who study four subjects except in one respect: if an applicant has used a fourth A-level to add breadth to their studies beyond maths and sciences, we may offer AAAA as well as A\*AA, so that either attainment will gain them a place to study with us. Provided that a grade A has been obtained in A-level Maths, we do not have specific subject requirements, but a science is good and we favour academically challenging subjects.

Breadth of outlook and the ability to think in different ways are very important for engineers so we value the study of, for example, History, Geography, Music or Literature, whether in English or another language, as highly as we do Physics. We don’t require or favour Further Maths over other subjects. We recognise that applicants’ choices may be influenced by the teaching available to them, as well as a wide range of advice and pressures, in addition to their own aptitudes and interests.

For details of our requirements in a wide range of qualifications, please visit our online prospectus.

## For more information contact:

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