Our year-long placements scheme offers a mutually beneficial experience for both employer and student. Whether you are a small business or large multinational company, our multi-skilled students will be an asset to your organisation.

- Employ a highly capable student able to contribute new ideas to your company
- Raise your profile on campus among a future graduate workforce
- Build long-term relationships that could lead to employment opportunities
- Develop the next generation of engineers

**Why employ a student engineer from Bath?**

We are one of the most successful universities in the UK. Our reputation is founded on the quality of our teaching, industrial collaboration and research. We develop our courses in consultation with industry, equipping our students with the skills needed for the workplace. We teach them the technical and transferable skills needed by practising engineers. They are experienced in problem solving and decision making through project-based learning. We nurture innovation and creativity by encouraging our students to take ideas from concept through to end product.

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**Degree courses:**

To become the leading professional engineers of the future our high achieving undergraduates study MEng and BEng Honours degree courses.

**Architecture & Civil Engineering**
- BSc (Hons) Architecture*
- MEng/BEng (Hons) Civil Engineering
- MEng (Hons) Civil & Architectural Engineering

**Chemical Engineering**
- MEng/BEng (Hons) Chemical Engineering
- MEng (Hons) Biochemical Engineering

**Electronic & Electrical Engineering**
- MEng/BEng (Hons) Electrical & Electronic Engineering
- MEng/BEng (Hons) Computer Systems Engineering
- MEng/BEng (Hons) Electrical Power Engineering
- MEng/BEng (Hons) Electronic Engineering with Space Science & Technology
- MEng/BEng (Hons) Electronic Systems Engineering
- MEng/BEng (Hons) Integrated Mechanical & Electrical Engineering

**Mechanical Engineering**
- MEng (Hons) Aerospace Engineering
- MEng (Hons) Mechanical Engineering
- MEng (Hons) Mechanical with Automotive Engineering
- MEng (Hons) Mechanical Engineering with Manufacturing & Management
- MEng (Hons) Integrated Design Engineering

*For further details on Architecture Placements visit: www.bath.ac.uk/ace/undergraduate/placements

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Our undergraduates have the technical ability, creativity, and teamwork experience to make an impact to your company.
How students contribute to your company

Our students can contribute to a wide range of projects

The type of work depends on the student’s own maturity, skills and abilities, and your business requirements but projects might include:

### Design & innovation
- Design and development of products and processes
- Product formulation
- Production analysis and control
- Innovation and technology management
- CAD, FEA, CFD, CAM
- Engine technology
- Advanced materials and composites
- Research and development
- Proof of concept and proof of principle research
- Hydraulics
- Structural design and construction

### Operations & production
- Scale up and pilot plant trials
- Commissioning
- Process optimisation
- Dynamic modelling and simulation
- Risk assessment
- Financial appraisals and project decision-making
- Data analysis and management
- Process analysis and control
- Plant modifications
- Surveying and geology
- Project Management

### Electronic & electrical systems
- Electronic signals, systems and communications
- Digital electronic design and microelectronics
- Power electronics and drives
- Satellite, terrestrial and mobile communication systems
- Digital image processing

### Energy & environmental
- Environmental impact and sustainability
- Energy and the environment
- Energy management systems
- Safety and environmental reviews
- Water and effluent minimisation and management
- Air pollution control
- Waste minimisation and management

You can employ more than one undergraduate student as a permanent part of your workforce each year.
How to employ our students

We run one of the most established placements schemes in UK higher education. Our placements team works with you and our students to match the right candidate to the right company.

We can help

- support your recruitment process by contacting students for you
- raise your profile on campus by organising presentations, skills sessions, mock interviews and sponsorships
- arrange department visits and meetings with key staff and research groups

Salaries

We recommend you pay our students £17,000 or above. Students need to know how much they will earn before they apply so that they can plan their budget for the year. They will need to make sure that they can cover living costs and other expenses.

International students

Students from over 100 countries study with us. International students bring valuable language skills, international market knowledge and cultural insights. The placement year is an integral part of our undergraduate degrees. This means our international students can work full time hours on a student Tier 4 visa and do not require additional work visas. The University of Bath remains the Tier 4 sponsor.

Contracts: Once a student has accepted your offer, you should agree a start date and send them a contract of employment. We ask that our students are fully contracted employees, working under the guidance of experienced engineers.

Accommodation: Students will find a place to live but any advice you can give on good local lettings agencies, or contact with other students and graduates will help.

"The standard of students is exceptionally high and the advice and support we receive from the placements team has been invaluable. It is our opinion that the University of Bath attracts extremely talented individuals that have a real passion for engineering."

Alison Hallsworth
OC Robotics
Bristol
Employers outside the UK need to be able to comply with the University’s Health and Safety and Risk Awareness requirements.
Student aims and objectives

Our students want to experience tasks and projects that develop the competence skills they need to become chartered engineers. Students discuss their aims with their supervisor in the first few weeks of their placement. We provide a personal development record, based on the Engineering Council UK-SPEC, to help them achieve their objectives. We also recommend you carry out monthly reviews with your placement employee. We encourage our Mechanical and Integrated Mechanical & Electrical Engineering (IMEE) students to follow the IMechE Monitored Professional Development Scheme (MPDS) if offered by your company.

All placement roles must meet the Faculty’s learning outcomes for students and aim to include:

- **Self-management** – work independently and take on responsibilities.
- **Communication skills** – communicate ideas effectively with colleagues and clients. They gain experience in report writing and/or presenting.
- **Comprehension** – understand and interpret instructions, new ideas and concepts.
- **Personal & social skills** – gain teamwork experience and establish good relationships, gaining respect from colleagues, clients and suppliers.
- **Engineering principles** – apply sound engineering principles and technical judgement linking their academic study and theory to industrial practice. They learn to consider aspects such as health and safety, quality, cost, timescales and sustainability. They develop knowledge of hazards and good practice.
- **Engineering practice** – select materials, processes and components to customer/company specification. They gain awareness of environmental legislation and sustainability issues.
- **Problem solving** – originate new and improve existing ideas. They are given the chance to identify and define problems and put forward innovative solutions in an industrial environment.
- **Technical achievement** – use engineering knowledge, theory and skills to produce results. They develop new ideas, technical solutions and new designs with an awareness of emerging technologies.
- **Commercial & financial understanding** – learn awareness of the commercial and financial implications of the tasks in hand whilst experiencing the atmosphere and pace of industrial practice.
- **Organisational skills** – understand the importance of planning and scheduling, and can respond to changing circumstances. They gain skills in project planning and time management.
Other ways to collaborate with us

Placements are not the only way that you can work with us. There are multiple pathways for us to collaborate with you from consultancy, staff exchanges and secondments to student projects, knowledge transfer partnerships and research. We have a strong track record of working with local, national and international companies across all sectors.

Consultancy
Your company can work with us to benefit from applied problem-solving and strategic advice through short and medium-term projects. You will gain access to our high profile experts and world-class facilities.

Knowledge Transfer Partnerships (KTP)
We work in partnership with companies on strategic development projects including products, processes and manufacturing improvement and innovation. Our KTP projects are typically two-years long with financial support for those based in the UK.

Student projects
Getting involved with our undergraduate projects creates fresh ideas to help you solve real problems affecting industry. You should contact us if you have a project idea you want to explore. Our Mechanical Engineering students can return to their placement company in Semester 2 of the following academic year to work on an External Integrated Project (EIP). Project work keeps you in touch with your placement students and potential new recruits.

Be a sponsor
Promote your company name and logo by sponsoring prizes or supporting our teams including:

- Team Bath Racing (TBR)
- Team Bath Racing Electric (TBRe)
- Bath University Racing Submarine Team (BURST)
- Team Bath Drones
- Bath Zero Emissions Motorcycles (B0EM)

Research
We encourage a wide variety of research interests. Our academic staff are always open to ideas which extend existing work or introduce new topics to their existing subject areas.

- From fundamental blue-skies to applied problem-solving
- Multidisciplinary teams across departments
- Postgraduate courses
- Appropriate IP protection frameworks
- Financial support from regional, national, European and international funding bodies

“Our research is visionary. We innovate by transferring this research into our teaching and we engage profoundly with end users. This is why our graduates are so sought after.”

Professor Gary Hawley
Dean of the Faculty of Engineering & Design

We are changing lives globally. The Research Excellence Framework 2014 rated the majority of our research as world leading or internationally excellent.

For further information on how you can collaborate across the University visit:

www.bath.ac.uk/business
www.bath.ac.uk/research
www.bath.ac.uk/groups/conferences-events
Six key benefits to your company:

Adding value
Like any employee, our placement students add more value than their cost. Even though you will be training them from the start, the full year of employment gives them the opportunity to make a real contribution to your company. Provided that valuable work is available, our students will always pay their way.

Recruitment
Employing placement students builds a pool of potential graduate recruits. The placement year can be an extended interview for both employer and student. This means the chances of finding a successful long-term recruit is high.

New ideas
Our students are in the middle of their studies. They already know about new methods and are familiar with up-to-date technology. There are many occasions when our students have contributed new knowledge to a company’s products, processes or methods.

Building a relationship with higher education
Developing links with us through placements and graduate recruitment can lead to other forms of collaboration that may benefit your business. You can get involved with us through sponsorships, prizes, presentations, workshops, student projects and research.

Rejuvenation
Our students rejuvenate the work environment. A new, enthusiastic face every year should enhance the work environment for everyone.

Mentoring and training
Your engineers will be able to pass on their knowledge to our inquisitive students. It can be very rewarding to have a positive influence on the next generation of engineers. The experience can also form an important aspect of your staff’s professional development.

“"We have had a collaborative relationship with the University of Bath for a number of years. We started with a placement student, then two, added a KTP research project, graduate degree programme and support a number of student group projects. We have found the relationship adds energy, external insight, and academic expertise, from both the students and the associated academic staff. In return we endeavour to provide students with experiences that are both enjoyable and of relevance to their studies. The relationship is greatly valued and we expect it to flourish further.”"

Simon Hughes
R&D Projects Manager
Saint-Gobain Performance Plastics Rencol Ltd, Bristol

Alison Ukleja
Placement Manager
a.ukleja@bath.ac.uk
+44 (0)1225 383467

Faculty of Engineering & Design Placements Team
4 East Foyer, University of Bath, BA2 7AY
+44 (0)1225 383462
fac-eng-placements-team@bath.ac.uk