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Undergraduate Energy courses

It is never too early to start your career in energy. Whether you have your sights set on a particular industry, want to combine dedicated energy modules with engineering rigour, or are looking for something that will keep your options open while taking you in the right direction, we have the courses, the academics and the business links to give your career the best possible start.

Open all sections

Nuclear Engineering MEng/BSc

New in 2011, this course draws on half a century's worth of expertise and has been designed specifically to meet industry demand for highly skilled graduates in nuclear engineering. Combining a solid grounding in physics with materials science and drawing on expertise from a number of schools, this degree will leave you perfectly placed to continue into research or graduate into the Nuclear sector.

Nuclear Engineering BSc (/undergraduate/courses/metallurgy-materials/nuclear-science-materials-bsc.aspx)

Nuclear Science and Materials MEng (/undergraduate/courses/metallurgy-materials/nuclear-engineering-meng.aspx)

Energy and Enginerering BSc/MEng

Accredited by the Energy Institute, Birmingham's Energy and Engineering degrees offer you the chance to combine rigorous training in traditional engineering fields with pioneering teaching in specific energy topics. Four courses are offered, at BEng or MEng level:

- **BEng/MEng Chemical and Energy Engineering (http://www.birmingham.ac.uk/students/courses/undergraduate/chemeng/chem-eng-energy-meng.aspx)**
- **BEng/MEng Civil and Energy Engineering (http://www.birmingham.ac.uk/students/courses/undergraduate/civeng/civil-eng-energy.aspx)**
- **BEng/MEng Electrical and Energy Engineering (http://www.birmingham.ac.uk/students/courses/undergraduate/eece/electrical-energy.aspx)**
- **BEng/MEng Materials Science and Energy Engineering (http://www.birmingham.ac.uk/students/courses/undergraduate/metmat/mat-sci-energy.aspx)**

Covering aspects of renewable technology, energy economics and policy, sustainability and environmental impact, these degrees offer not only the chance to expand your horizons beyond traditional subject boundaries but the chance to engage with real life energy engineering problems from the first year. For more information go to the **Undergraduate degree courses - Energy Engineering (/research/activity/energy/education/undergraduate/index.aspx)** pages

Other Energy Options

You don't have to take a specific energy degree to get ahead in the field. Modern day research is cross disciplinary and draws on scientists from a vast range of backgrounds and expertise.

A degree in **Biosciences (http://www.biosciences.bham.ac.uk/study/undergrad/masters.shtml)** could set you up to work with Biofuels, as could a degree in **Chemistry (http://www.chem.bham.ac.uk/study/ug/degrees/index.shtml)** or **Chemical Engineering (http://www.eng.bham.ac.uk/civil/study/undergrad/courses.shtml)**, which have strong relevance to clean oil technologies, the manufacture of biofuels and hydrogen fuel cells. Studying **Electronic Engineering (http://www.eece.bham.ac.uk/StudyHere/UndergraduateDegreesBEngMEng/tabid/81/Default.aspx)** or **Computer Science (http://www.cs.bham.ac.uk/admissions/undergraduate/)** could lead you into working on Smart Grids and the delivery of electricity from power plants to homes and offices, while a degree in **Civil Engineering (http://www.eng.bham.ac.uk/civil/study/undergrad/courses.shtml)** could see you planning the infrastructure to enable that to happen, finding new ways to deliver energy into homes, and tackling the problems of sustainable transport and cities.

If you are interested in the environmental impact of our energy decisions then you could consider studying a course related to **Geography (http://www.gees.bham.ac.uk/prospective/undergrad/)**. **Materials Science (http://www.eng.bham.ac.uk/metallurgy/study/ug_mat_degree.shtml)** will provide you with the skills and the knowledge to design the materials that power stations and technologies are made from. A degree in **Physics (http://www.ph.bham.ac.uk/admissions/ug/programmes.shtml)** or **Mathematics (http://www.mat.bham.ac.uk/study/ug/degree.shtml)** will give you a great understanding of the fundamental science and techniques that make a lot of this research possible, and there will always be opportunities to apply your learning in the energy industries or to progress to a more specific postgraduate qualification later after your initial studies.

Our Energy Research pages give a taste of the pioneering work our researchers undertake across a variety of fields.If you have questions on the specifics of a particular course or its relevance to energy, please contact the course leaders as listed on the web pages, who will be happy to discuss your options and help you choose the direction that is right for you.

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