



# MSc Sustainable Energy and Entrepreneurship

**The economic wealth of a country depends not only on its research base but also on its ability to exploit the commercial potential of its intellectual property. This course provides students with advanced skills and vital training in renewable energy, energy efficiency and business.**

Students will gain essential technical skills in the field as well as becoming fluent in the financial, marketing and managerial aspects of modern business. The course aims to develop confidence and understanding in the specialist field of entrepreneurship applied to technology that can arise from the research base of sustainable energy subjects. Graduates from the course will be well placed to pursue careers in renewable energy technology industries.

Students will develop:

- useful and technical knowledge in the areas of sustainable energy and business
- the ability to plan and undertake an individual project
- the ability to communicate ideas effectively in written reports, verbally and by means of presentations to groups
- the ability to exercise original thought
- knowledge of the application of technologies to proposed business models





# MSc Sustainable Energy and Entrepreneurship

## Course structure

The course combines three elements: lectures in business and industrial skills; lectures in leading-edge renewable energy technology; and the application of these technologies to a proposed business model via a summer project. The course consists of 120 credits of taught modules over the autumn and spring semesters and a 60 credit independent research project over the summer. Please be aware modules may be subject to change.

### Core modules

#### *Business Element*

##### Autumn semester

Creative Problem Solving  
Finance and Accounting  
Project Management

##### Spring semester

Marketing for Entrepreneurs  
Innovation Management  
Science Technology Arts and Business

#### *Technology Element*

##### Autumn semester

Renewable Energy Technology  
Regulation & Management of Energy Supply & Use

### Optional modules

Students will be able to choose three further optional modules from the following list:

##### Autumn semester

Air Conditioning Technologies  
Advanced Topics of Heat Transfer  
Combustion and Pollution Control  
Energy Conversion and Utilisation  
Energy Efficient Systems  
Hydrogen Economy & Technologies

##### Spring semester

Combined Heat and Power Systems  
Cooling Technologies & Applications  
Materials & Building Physics  
Renewable Energy Technologies 2  
Research Methodologies

### Individual project

You will spend the summer term producing a supervised dissertation. This will be your opportunity to undertake a major piece of independent research, using the knowledge and experience gained from the taught modules. Students are expected to work closely with companies specialising in renewable energy technologies.

Previous projects have included:

- an interdisciplinary comparative study exploring the efficiency and economic impact of timber prefabrication within sustainable dwelling construction in the UK
- creative market entry for consumer sustainable technologies: an entrepreneurship theory approach to the distribution and sale of the Think City EV (electric vehicle)

- carbon credit creation: a case study of the portal office project
- analysis of the UK's emerging carbon capture and storage industry: for gaps and opportunities
- integration of renewable energy into a rural off-grid village: a case study of Mutunda village
- electric vehicle enterprise opportunity between China and USA: a business case study of Lishen and CODA

## Funding opportunities

Find out more about funding options at:

[www.nottingham.ac.uk/graduateschool/funding](http://www.nottingham.ac.uk/graduateschool/funding)

## Employment prospects

The governments of many countries have made renewable energy a priority area in their energy policies. This indicates a great opportunity for development and commercialisation of renewable energy technology, and therefore excellent career prospects for graduates from this course.

## Entry requirements

The course is suitable for applicants with a 2.1 honours degree in an engineering-related discipline (eg energy, environment, building services, chemical and mechanical) or a science-related discipline such as physics or chemistry. A current CV, two references and a detailed academic transcript (showing GPA) are required for the application. All documents MUST be in English. Applicants from other backgrounds holding equivalent qualifications/experience will be considered.

English language requirements:

- IELTS score of at least 6.0 with a minimum score of 5.5 in individual elements

Other qualifications are accepted and exceptions are sometimes made for students who have had their education entirely in the medium of English and where English is a well-established second language.

## How to apply

Candidates are encouraged to apply online at:

<https://pgapps.nottingham.ac.uk>

## Contact us

For further information, please contact:

Graduate Admissions  
Department of Architecture and Built Environment  
t: +(0) 0115 951 3882  
e: [abe-enquiries@nottingham.ac.uk](mailto:abe-enquiries@nottingham.ac.uk)  
w: [www.nottingham.ac.uk/abe](http://www.nottingham.ac.uk/abe)

## To request this information in an alternative format:

t: +44(0)115 951 4591