



# MSC Renewable Energy and Environmental Modelling

“The MSc provided a good base to research renewable technologies and understand how they fit into the energy mix and government policy. After graduation, I am now employed as Chief Technical Officer at Scottish Renewables.”

**David Cameron**

## MSc Renewable Energy and Environmental Modelling

Climate change is possibly the most significant threat that humanity has faced in its history. A massive global effort will be required to find sustainable solutions to future energy needs. A new generation of scientists, engineers and policy-makers will need to be equipped with skills to enable them to make informed decisions on all aspects of this important and rapidly developing subject. This course produces graduates with a broad and balanced skills base, within a programme of real depth and a sound contextual basis.

- Suits students and professionals from diverse backgrounds - scientists, engineers, environmentalists, policy-makers
- A multi-disciplinary approach to sustainable solutions for future energy needs, with an in-depth knowledge of the new emerging alternative technologies
- Conference-style teaching – in one week intensive bursts
- Field trips & external conferences included in the coursework with networking opportunities for students
- Graduates make an immediate contribution to the renewable energy sector, entering public, environmental, industry and commercial industries
- Industry-based or research-related project

### Course content

- Foundation in renewable energy
- Energy regulation law and security of supply
- Hydrogen economy (incorporating fuel cells)
- Physical concepts: A primer in energy, electromagnetism & electronic materials
- Renewables technologies: In depth investigation of existing & emerging technologies, supply & demand issues, conservation & architectural issues
- Environmental modelling: hydrology, carbon cycling, wind, wave & solar modelling
- Field trips
- Project

### To apply

- An honours degree, usually at 2.1 or above in physical sciences, engineering, environmental science and related subjects or an ability to demonstrate considerable experience in a relevant field
- IELTS 6.0 (or equivalent) for applicants whose first language is not English
- For application information: <http://www.dundee.ac.uk/postgraduate/> or email: [postgrad-admissions@dundee.ac.uk](mailto:postgrad-admissions@dundee.ac.uk)

### Further information contact course leader

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“After a few lectures and class discussions I became inspired about the collective national effort to bring renewable technologies to the forefront of the energy industry and enjoyed every minute of the following year. I was fortunate to gain employment with Scottish and Southern Energy where I am part of a short-term planning team focused at looking at all areas of the company’s energy portfolio.”

**Martin Shaw**



[www.dundee.ac.uk/eps](http://www.dundee.ac.uk/eps)



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