Kingston renewable energy growth

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Climate change is a major challenge for the 21st century, requiring an alternative supply of cleaner energy from renewable sources. This course is designed with an engineering focus that deals with applications, combined with the business element; applicable whether you work for a large organisation or a small-to-medium-size enterprise.

You will gain skills and expert knowledge in solar power, wind power, hydrogen and fuel cell technologies, renewable energy business and management. You will use computer-aided simulation technologies such as Polysun for solar energy applications, windPRO for wind farm applications and GaBi for life cycle assessment. Through option modules, you will be able to specialise in project engineering and management, risk management or engineering design and development. Advanced topics include 3D solid modelling and simulation, and computational fluid dynamics (CFD) analysis and simulation.

Important: if you are an international student requiring a Student Route visa to study in the UK you will also need an ATAS certificate for this course.

Global warming and the consequences of climate change will increasingly affect both developing and developed countries, especially if the greenhouse gases currently increasing carbon dioxide in the atmosphere are not brought to an acceptable level.

A global priority for the 21st century must be to tackle CO2 emissions from fossil fuels, replacing them with sources of energy that are cleaner, sustainable and renewable. According to the International Panel for Climate Change (IPCC), the world"s current use of renewable energy is only 13% of overall energy consumption.

In response to this, European Commission directives set a 20% reduction in the use of fossil fuel in Europe by 2020 and a 15% increase in the use of renewable energy in the UK. This means there are business incentives for developing alternative energy resources and technologies as a substitute for fossil fuel technology.

With the expected global growth in the renewable energy sector, there will be a crucial need for qualified and skilled engineers with specialist knowledge of the relevant technology. This MSc course focuses on viable sustainable and renewable sources of energy conversion based on systems using solar, wind and bio technologies.

The MSc will meet, in part, the academic benchmark requirements for registration as a Chartered Engineer. Accredited MSc graduates who also have a BEng(Hons) accredited for CEng, will be able to show that they have satisfied the educational base for CEng registration.

It should be noted that graduates from an accredited MSc programme, who do not also have an appropriately

accredited honours degree, will not be regarded as having the exemplifying qualifications for professional registration as a chartered engineer with the Engineering Council; and will need to have their first qualification individually assessed through the individual case procedure if they wish to progress to CEng.

Find out more about Further Learning by visiting the Institution of Mechanical Engineers website.

Accreditation is a mark of assurance that the degree meets the standards set by the Engineering Council in the UK Standard for Professional Engineering Competence (UK-SPEC). Some employers recruit preferentially from accredited degrees, and an accredited degree is likely to be recognised by other countries that are signatories to international accords.

Please check the Engineering Council websitefor more information aboutaccredited degrees.

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