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## MSc by Research Studentship in Smart Grids Greener Energy, Cranfield University, UK

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### MSc by Research – ‘Smart Grids’ for a greener energy supply and consumption

The UK’s Low Carbon Transition Plan has committed the UK to reduce carbon generation by 34% by 2020, making the UK lead the way globally in plans to reduce carbon generation. This exciting collaborative research opportunity between [Cranfield University](#) and the University Centre Milton Keynes, aims to bring fresh thinking into practice to help the UK achieve this target.

The [electrical](#) infrastructure that serves UK consumers today, despite having evolved to perform efficiently and effectively over more than a hundred years, will require considerable investment and redesign if these targets are to be met.

Increasingly, the suite of technological capabilities known as the “Smart Grid” is being seen as the future form of this infrastructure. In the home environment these may allow the [management](#) of electricity supply and demand in an optimal way. The “Smart Grid” home may be able to inform the occupants of the best way to consume electricity, and to integrate excess capacity from domestic generation of power back into the grid.

Key to these “Smart Grid” technologies achieving success will be acceptance and use of them by the consumer. In this project, you will investigate how to make these technologies work for people in their own homes.

### Doctoral Training Centres

This higher research degree is associated with one of our Doctoral Training Centre, which is funded in part by the Research Councils and industry. A generic core skills training programme is provided for all research students. This is structured as a series of half day or full day events and acts as a social and networking forum to foster and develop Cranfield’s research student community.

### Entry Requirements

Applicants should have a first or second UK Honours degree (or equivalent) in a relevant discipline such as [mechanical engineering](#), [industrial/manufacturing engineering](#), [computer science](#), [software engineering](#) or engineering design. Exposure to energy supply management is also desirable.

### Funding

Supported by Cranfield University’s IVHM Centre and University Centre Milton Keynes, this studentship will cover tuition fees at the UK/EU rate. Non UK/EU students will have to pay the remainder of their tuition fees up front before commencing their studies. Applicants are also eligible for a bursary of £10,000 for one year.

### How to apply

If you are eligible to apply for this research studentship, please complete the Application Form or you can request that we post one to you. Alternatively you may wish to apply online. For further information contact us today:

School of Applied Sciences  
T: +44 (0)1234 754086  
E: [appliedsciences@cranfield.ac.uk](mailto:appliedsciences@cranfield.ac.uk)

Please note that we are unable to consider submissions for specific research [studentships](#) that fall outside of the stated eligibility criteria.

Application deadline: 31 July 2011

Supervisor: Dr Ashutosh Tiwari, Dr Jeffrey Alcocka nd Mr Windo Hutabarat  
Duration of award: One year  
Award type: MSc by Research

For more information please visit our website: <http://scholarshipsbank.com/msc-by-research-studentship-in-smart-grids-greener-energy-cranfield-university-uk/>

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