

## IMPEE PhD Opportunity Form

Last update: 07/10/2013

Project title: Microreactor for energy and carbon conversion  
Supervisor(s): Dr. Jin Xuan

**Abstract** (200 words max):

Microreactor technology has wide application in the field of energy and carbon conversion. The PhD project will involve microreactor system setup, numerical simulation as well as understanding of microscale transfer-reaction interactions. Target applications include carbon capture and utilization (e.g. converting CO<sub>2</sub> emission into fuel and product) and renewable energy storage and conversion (e.g. biomass conversion, fuel cells, etc.).

**Requirement (Optional;** 100 words max):

*(e.g. BEng in Mech Eng with average higher than XX%; Previous experience in XX)*

A first or upper second class Degree or Masters in Mechanical Engineering, Chemical Engineering, Chemistry, Material or related areas at Upper Second Class or equivalent.

Other info (**Optional;** 100 words max):

*(e.g. Scholarship source; annual amount; length; how to apply. Leave this blank if not applicable)*

To find out more or apply, please contact Dr Jin Xuan at: [j.xuan@hw.ac.uk](mailto:j.xuan@hw.ac.uk)

Visit [https://pureapps2.hw.ac.uk/portal/en/persons/jin-xuan\(f0a0d05a-aadb-402c-8266-a787187190a0\).html](https://pureapps2.hw.ac.uk/portal/en/persons/jin-xuan(f0a0d05a-aadb-402c-8266-a787187190a0).html)

Full PhD studentship is available immediately to selected candidate.

*\*Due to the page limit, max. 3 PhD projects can be listed per academic staff. Changes can be made using this form.*

**\*Please send the completed form to Yuhang Chen ([y.chen@hw.ac.uk](mailto:y.chen@hw.ac.uk)) and cc Mylene ([M.Honore-IHortalle@hw.ac.uk](mailto:M.Honore-IHortalle@hw.ac.uk)).**