

PhD studentship available in BLOCK COPOLYMER-ENABLED SUPERCAPACITORS



Start date: September 2020
Stipend: 4 years at EPSRC rate (20/21: £17,432)
Eligibility: UK and EU candidates, who have been ordinarily resident in the UK for at least 3 years prior to the start of the studentship.
Deadline: 1st May 2020

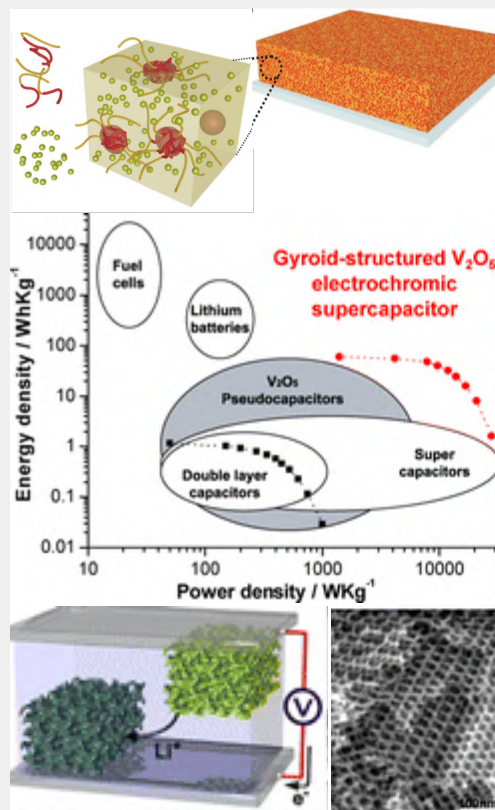
UCL Department: Chemical Engineering (Adaptive & Responsive Nanomaterials Group; Dr Stefan Guldin)

Project description: We are looking for a PhD candidate to join our group in the area of molecular self-assembly for application in supercapacitors. The aim of the studentship will be to implement the detailed structure control offered by block copolymer co-assembly for the creation of next generation supercapacitors. The project builds on existing expertise in our group on the bespoke assembly and characterization of mesoporous inorganic thin films. To this end, we developed multiple pathways to control the mesopore architecture, i.e. porosity, pore size and percolation paths through organic structure directing agents.

The project will be conducted in close collaboration with the Electrochemical Innovation Lab at UCL, founding member of the Faraday Institute.

Candidate: You will have or be expected to obtain an Upper Second-Class Honours (2:1) degree from a UK MEng level programme or its equivalent (e.g. a 3-year BSc followed by an MSc degree) in chemical engineering, chemistry, materials science, physics or an associated discipline. Interest in supramolecular self-assembly & electrochemistry as well as some prior experience in wet chemistry, thin film processing & device fabrication is desirable.

How to apply: Please contact ASAP Dr Stefan Guldin (s.guldin@ucl.ac.uk) to find out more about the studentship.



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