PhD Studentship in Inorganic Materials from October 2016
Professor Richard Walton

PhD project: Understanding the Formation of Functional Oxide Materials

Supervisor: Professor Richard Walton [http://go.warwick.ac.uk/waltongroup](http://go.warwick.ac.uk/waltongroup)

Project description:
A 3.5 year PhD studentship is available in the group of Professor Richard Walton to work on a new project in collaboration with industrial partner MEL Chemicals. MEL Chemicals is part of an international group of companies (The Luxfer group), and are one of the largest producers and suppliers of zirconium compounds for various applications ([www.zrchem.com](http://www.zrchem.com)). This project concerns a fundamental understanding of the impact of synthesis on material properties for catalysis. The aim is to use a variety of analytical techniques, at Warwick and at MEL Chemicals UK site in Manchester, that will include spectroscopic and X-ray diffraction methods to build up a picture of part of the process. There also will be the opportunity to extend the work to include advanced techniques at central facilities, such as Diamond Light Source and the ISIS neutron source. As part of the project the student will be expected to spend periods of time at MEL Chemicals and there is the chance to undertake a paid placement at their UK site in July-September 2016 prior to the start of the PhD project.

Requirements:
Applicants should have an honours degree (at least II.1 or equivalent) in chemistry, or other relevant discipline, and should be a UK citizen or have been a resident in the UK for three or more years.

How to apply:
Please direct informal enquiries and requests for further information to r.i.walton@warwick.ac.uk
Details on the formal application procedure can be found at [http://www.go.warwick.ac.uk/pgapply](http://www.go.warwick.ac.uk/pgapply)

Deadline: 31st May 2016, but applications will be considered on a rolling basis.