A PhD Studentship is available from October 2014 to join the group of Professor Sébastien Perrier at the University of Warwick (UK). The research group can be found at: http://www2.warwick.ac.uk/fac/sci/chemistry/research/perrier/

This scholarship is fully funded (fees and stipend included) and is open to UK or EU nationals only. Duration is for 3 years starting October 2014.

Our research focuses on the synthesis of macromolecules with highly controlled and pre-determinable structures using modern polymer and organic synthetic methods. We exploit supramolecular interactions to organise these molecules into nanostructured materials, for applications in nanomedicine (e.g. drug delivery, vaccines, antimicrobial materials), nanotechnology (e.g. components for optoelectronic applications), material science (e.g. rheology modifiers) or chemistry (polymerization catalysts, processes, etc.).

A project in collaboration with an industrial partner has arisen from our recent work on the design of complex polymer architectures,1,2 and will explore the use of advanced polymerization techniques, in particular RAFT polymerization, to design new functional macromolecules. The project will investigate the synthesis, characterization and applications of these materials in an industrial context. This opportunity will enable the successful candidate to work on fundamental polymer chemistry (based at Warwick) as well as being exposed to an industrial environment, by having the option to spend time in the facilities of our industrial partner.

References:

Requirements:
Applicants should have (or be about to receive) at least a Honours degree (at least upper second-class or equivalent) in Chemistry or Materials Sciences.

How to apply:
Details of how to apply are available at http://www.go.warwick.ac.uk/chem-phd

Enquiries and informal applications should include a CV and be made as soon as possible to: Sébastien Perrier at s.perrier@warwick.ac.uk

Deadline for applications is 31 May, 2014