Well-defined polymer and nanocomposite networks through tailored synthetic design

PhD

Start Date: As soon as possible
WMG Supervisors: Dr Tara Schiller and Professor Tony McNally

Project overview:
For enhanced performance of materials for use in specialised applications such as coatings, membranes or biomaterials the development of techniques that deliver optimal control over polymer chemical structure, functionality and topology whilst providing adaptability to physical properties, such as flexibility and strength, is especially pressing. Such improvements will lead to more predictable and reliable performance properties.

The aims of this project are to

- develop a synthetic toolbox that enables the preparation of polymer and nanocomposite networks which allows for facile manipulation of their physical and mechanical properties, and
- deliver this technology for the production of tailored designer polymers and composites through this efficient approach.

The successful candidate will be based in the International Institute for Nanocomposites Manufacturing (IINM) within WMG, at the University of Warwick.

Entry requirements:
Candidates should hold a 1st or 2.1 degree in a related science or engineering discipline with knowledge in chemistry or materials science and engineering.

Funding:
For funding requirements you must be a UK or EU national or resident for at least 3 years.

This position provides a tax-free stipend of £14k per annum and all fees paid are paid for UK/EU nationals for up to three years.

To apply:
Please contact Dr Tara Schiller by email with any information enquiries regarding this project.

If you are interested in applying for this position please complete our online enquiry form in the first instance.