Department of Chemistry

2 PhD Studentships
Dr Giovanni Costantini

**PhD project:** Visualising Supramolecular Assembly by Preparative Mass Spectrometry

**Supervisor:** Dr Giovanni Costantini

**Project description:**
A PhD Studentship is available to work on the development and application of a variety of new experimental techniques to investigate the interaction of complex molecular units with surfaces and interfaces. The successful applicant will work as part of a team to design, build and test a novel type of ion soft-landing apparatus and to integrate it with state of the art scanning probe microscopy techniques. This unique instrument will allow a ground-breaking new approach to the controlled functionalisation of surfaces. In particular, the student will apply this innovative experimental setup to explore the adsorption, conformation, mutual interaction and real-time dynamics of peptides on surfaces with ultimate spatial resolution.

Tax free stipend for the student is approximately £13,500/year.

**Requirements:**
Applicants should have (or be about to receive) an excellent master’s (or equivalent) degree in physics, chemistry, engineering or materials science.
Applications are open to UK, EU and Overseas students.

**How to apply:**
Applicants are required to provide:
- an academic CV;
- official full list of courses and grades from the university;
- contact details of two suitable referees;
- a covering letter outlining the applicant’s suitability for the study and his/her research experience to date.

Applications should be emailed to: g.costantini@warwick.ac.uk. The successful candidate will be required to submit a formal University of Warwick on-line application to fulfil the normal admissions process. Any enquiries relating to the project and/or suitability should be directed to Dr Costantini at the address above.

Further post details and research group information is available at
http://www2.warwick.ac.uk/fac/sci/chemistry/research/costantini/costantinigroup