PhD Studentship
Dr Rebecca Notman

**PhD project:** Modelling the lipid layers of the human skin barrier

**Supervisors:** Dr Rebecca Notman

**Project description:**
The stratum corneum is the topmost layer of skin. This very thin layer is an amazing biological barrier which prevents substances in the environment from getting inside the body and stops water from escaping. A thorough understanding of the stratum corneum is important for numerous applications including new treatments for skin diseases, transdermal drug delivery (the delivery of drugs across skin e.g. using patches) and innovative touch technologies. In this computational/theoretical project you will use a variety of molecular simulation techniques to investigate how the skin lipids assemble into this highly impermeable barrier. You will then apply these models to solve current challenges in skin research. This is an EPSRC funded studentship for 3.5 years paying a stipend at normal EPSRC level (currently 13,590).

**Requirements:**
Applicants should have (or be about to receive) an honours degree (at least 2:1 or equivalent) in chemistry, physics or another relevant discipline. Prior experience of computational chemistry or molecular simulation is desirable but not essential as full training will be provided. As a consequence of funding restrictions, this studentship is only open to nationals of the UK, or EU who have lived in the UK for over 3 years (e.g. as a student).

**How to apply:**
Please direct informal enquiries, including a CV, to Rebecca Notman: r.notman@warwick.ac.uk. More information about our research is available at http://www2.warwick.ac.uk/go/notmangroup.

Details on how to apply formally can be found at http://www.go.warwick.ac.uk/pgapply.