

## Two Marie-Curie PhD Fellowships in Bath/Eindhoven



Start: October 2010

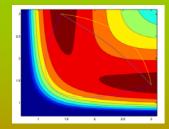
These three-year projects are funded by the EU project FIRST (www.mat.ucm.es/~FIRST)

They are open to any applicant who has not lived in the UK or in the Netherlands for more than 12 months out of the last five years.



Project 1: Mathematics of Folding Rock

Rocks fold into complex patterns with geometrical singularities. This project will use a variational method to describe and predict these patterns and give insight into the geological history of the earth.



## Project 2: The Micro-Macro Passage for Chemical Reactions

The law of mass action describes how chemical compounds react. In this project we aim to recover this law from a mathematical model of interacting particles, giving new understanding of the microscopic basis of chemistry.

**Project 1** will be supervised by *Giles Hunt* and *Chris Budd (Bath)* and *Mark Peletier (Eindhoven)*. **Project 2** by *Johannes Zimmer (Bath)* and *Mark Peletier*. The first two years will be spent at the **University of Bath, UK**, where in 2010/11 all supervisors will be present, and the third year at the **Technical University, Eindhoven, the Netherlands**.

We are seeking 2 candidates with a strong mathematical background and an interest in working in a multidisciplinary environment. Interested candidates can contact Chris Budd (mascjb@bath.ac.uk), Johannes Zimmer (zimmer@maths.bath.ac.uk) or Mark Peletier (m.a.peletier@tue.nl).

Deadline for application: June 15th, 2010