

**Structural Analogues for Reservoirs (STAR)  
Fault Dynamics Research Group  
Department of Earth Sciences  
Royal Holloway University of London**



**2 Post-Doctoral Research Positions  
1 Post-Graduate Research Position  
2 PhD Studentships  
Web Manager**

We seek to appoint the following positions:

**Web Manager**

A position to develop and produce interactive archives and web-based delivery of the Fault Dynamics Research Group's results. Expertise in geological computing, web development, graphics and presentation techniques are essential. Involvement in numerical modelling research projects may also be required. Candidates with an MSc / PhD and structural geology expertise and workstation / computing expertise are particularly encouraged to apply.

**Post Doctoral Research Assistant**

**Position 1. PDRA - Analogue Modelling - Field Studies**

A position to undertake research on the 4D evolution of natural fault systems using field studies, 2D and 3D seismic studies combined with analogue and numerical modelling. Candidates with a PhD and expertise in fault analysis, brittle deformation tectonics, and structural interpretation of 2D and 3D seismic are encouraged to apply.

**Post Doctoral Research Assistant**

**Position 2. PDRA Numerical Modelling, Remote Sensing & Field Studies**

A position to undertake research on the physical and numerical modelling of fault systems and studies of natural fault systems. Candidates with a PhD and with expertise in analogue modelling, fault analysis, brittle deformation tectonics, and structural interpretation of 2D and 3D seismic data are particularly encouraged to apply.

**Post Graduate Research Assistant**

**Position 3. PGRA - Analogue Modelling**

A position to undertake research on physical and numerical modelling of fault systems and studies of natural fault systems. Candidates with an MSc and expertise in analogue modelling, structural analysis and seismic workstation or computer modelling and visualization experience are particularly encouraged to apply.

## 2 PhD Studentships - STAR Project

Two fully funded three year PhD studentships (UK or EU students) are immediately available to join the STAR research team.

### **Research Project 1 - 3D inversion tectonics - scaled analogue modelling and 3D seismic interpretation.**

This project will involve the scaled physical modelling and 3D reconstruction of inverted rift basins in a variety of tectonic settings. The results of the scaled analogue models will be compared to the interpretations of 2D and 3D seismic surveys from Indonesia, the Nequen basin in Argentina and elsewhere. Field studies may also be carried out in sub-Andean basins in South America.

### **Research Project 2 - Transpression and transtensional tectonics – scaled analogue modelling, field & remote sensing studies**

This project will involve scaled physical modelling of transtensional and transpression tectonics particularly focusing on basin development and inversion in these regimes. The results of the scaled analogue models will be quantitatively analysed using modern workstation techniques and compared to seismic and field studies of natural basin systems in strike-slip settings. Field studies will complement the analogue modelling and seismic research programmes.

**For further information and preliminary applications please send a detailed CV to Professor Ken McClay, Fault Dynamics Research Group, Royal Holloway University of London [k.mcclay@es.rhul.ac.uk](mailto:k.mcclay@es.rhul.ac.uk) as well as a copy to the Administrator of the Star Project MS Catherine Walder – [c.walder@es.rhul.ac.uk](mailto:c.walder@es.rhul.ac.uk).**

Posts are immediately available. The PDRA, PGRA and Web Manager positions will run until March 2010 in the first instance. Salary range is dependent on position and experience. Closing date is on 16th June 2008. A formal application form for these staff positions is available from the Personnel Department, Royal Holloway, University of London, Egham, Surrey TW20 0EX; tel: +(44)-1784-414241; fax: +(44)-1784-473527; web: <http://www.rhul.ac.uk/personnel/>

We reserved the right to not appoint or to readvertise as required.  
We positively welcome applications from all sections of the community.

For further details regarding the Fault Dynamics Research Group please visit our website – <http://fdrg.rhul.ac.uk/>

The STAR project is sponsored by: BG Group, BHP Billiton, BP, ConocoPhillips, Nexen, ONGC, PDVSA, Repsol YPF, Shell, StatoilHydro, and Talisman.