

# Research Assistant / Associate in Geomechanical modelling of basin-scale compaction and overpressure

**Newcastle University**  
**School of Civil Engineering and Geosciences**

**Salary: £25,251 - £35,938 per annum**

**Closing date: 28 September 2012**

Located in the School of Civil Engineering and Geosciences, you will be a key researcher within the 'GeoPOP3' project, an industry consortium project based in Durham and Newcastle funded for three years to investigate pore pressure and its prediction in clastic sedimentary rocks. The project is interdisciplinary, bringing together experts in geomechanics, geophysics and geochemistry in an effort to reduce uncertainty in pore pressure prediction prior to drilling.

- For this position, we are seeking to recruit a Research Associate who has expertise in the geomechanical modelling of basin-scale compaction and overpressure, and who is familiar with wireline log and seismic data.
- You will undertake modelling and simulation of fluid pressure evolution to transfer into advanced geomechanical models such as Abaqus. Mudstone rheology will be defined with advanced constitutive models and then used to explore basin-scale compaction and uncertainties in pore pressure predictions against field data.
- The work requires effort in the area of computational geomechanics. Consequently, you will have a PhD (or equivalent) and research experience in one or more of geomechanics, reservoir engineering, geoscience and numerical modelling. Sound programming skills will be useful.
- You will have the opportunity to work closely with industry and will be expected to disseminate results both as academic publications and industrially relevant reports.

**For more information, and to apply, please go to [www.ncl.ac.uk/vacancies](http://www.ncl.ac.uk/vacancies) and enter D1100R in 'Vacancies search'**

