



## Two PhD positions in structural-/petroleum geology

The Geosciences Group at Uni CIPR (Centre for Integrated Petroleum Research) is seeking candidates for two fully funded PhD studentships in the field of structural geology. Uni CIPR is affiliated with the Uni Research, a private research company, and the University of Bergen (UiB), Norway. The students will be employed by Uni Research and enter the PhD program through Department of Earth Science at UiB. Uni CIPR is a Norwegian Centre of Excellence in petroleum research and currently employs some 60 researchers and 30 PhD candidates. The successful applicants will work in the framework of two newly started research projects, described below.

The first project (the SALTEC project) focuses on salt tectonics. The main focus will be the temporal evolution and structural style of different salt structures, and the student will integrate field work and interpretation of subsurface data sets (3D seismic, electromagnetic and well data). Several field areas are under consideration, including Oman, Utah and Mexico. For the SALTEC studentship, candidates with background/experience in one or more of the following will be preferred: structural geology, tectonics, interpretation of subsurface data, balancing and restoration. The project is geared toward increasing the understanding of salt (structures) and related fault systems in time and space, as well as in the context of its significance in petroliferous basins.

The second project is called “Contractional deformation of Porous Sandstones” (COPS) and involves a study of the deformation of porous sandstones in the contractional regime. This project builds on CIPR’s experience with sandstone deformation in the extensional regime, and involves extensive field studies of deformed sandstone formations. Field areas include Nevada-Utah-Colorado, and possibly northern Chile. Study of oil field material, such as cores and seismic data, may also be necessary. The COPS student should be prepared for structural and petrophysical field investigations, sampling and laboratory analyses of samples, thin sections/microscope work and the use of SEM. Keywords are deformation bands, fault cores, fault initiation and processes, fault propagation folding, fluid flow, cementation, porosity and permeability.

### *Required knowledge and skills*

We are looking for highly motivated and hard working students with the ability to work independently as well as in a team. Suitable applicants should possess or be close to completion of a Master’s degree or equivalent in structural geology or a related earth science discipline. Experience with fieldwork, seismic interpretation and remote sensing tools is considered advantageous. The applicants should have the capability of working independently with good problem-solving and communication skills, including excellent oral and written English. Both students must be physically fit and mentally motivated to undertake geological fieldwork in relatively remote areas and willing to spend some time at other research or petroleum institutions as required by the project. A driving license is a prerequisite.

The PhD students will enter an approved program at UiB leading to the degree of PhD within a time frame of three years, subject to approval of PhD dissertation and defense. Salary in accordance with the Civil Service pay grade table scale for PhD students; currently NOK 383,900 gross p.a.; following ordinary meriting regulations. Uni Research offers Group Pension Insurance and Personnel Insurance Scheme for their employees. For more information please contact project leaders at Uni CIPR: For the SALTEC position, contact Dr. Atle Rotevatn ([atle.rotevatn@uni.no](mailto:atle.rotevatn@uni.no), +47 48109959). For the COPS position, contact Professor Haakon Fossen ([haakon.fossen@geo.uib.no](mailto:haakon.fossen@geo.uib.no), +47 55583495).

The candidate should clearly indicate which of the two positions they are applying for, marking the applications “2010-SALTEC-AR” or “2010-COPS-HF”, respectively. Candidates applying for both positions should send two separate applications. The electronic application must contain a complete CV, scanned copies of diplomas, transcripts and driving license, publications, letters of recommendations, three references (former advisors etc.) and other relevant work.

Register your application <http://www.cipr.uni.no/form/form.asp?fid=101> and send all documents to [apply-cipr@uni.no](mailto:apply-cipr@uni.no) by **November 30<sup>th</sup>, 2010**.