

Postdoctoral Research Associates, AIRIE Program, Colorado State University

Two postdoctoral research positions are available immediately through a \$2.3M PETROMAKS award from the Norwegian Research Council and the Norwegian petroleum industry, based on a long-standing partnership with the Geological Survey of Norway in Trondheim. The positions will be based in the AIRIE laboratories, Department of Geosciences, in Fort Collins, Colorado. Both are funded for four years. Appointments will be made for one year, with renewal contingent on performance.

The project will use Re-Os geochemistry to link source rocks with hydrocarbon resources in Norway's arctic regions, using samples from outcrops in Svalbard and East Greenland, shallow drill holes in the Norwegian and Barents Seas, and hydrocarbons from Norway's active oil fields. Re-Os geochronology and variations in initial Os isotope ratios for black shales (petroleum source rocks) will be used to probe fundamental questions in sedimentology and biostratigraphy, and for correlation with migrated hydrocarbons. Behavior of Re and Os during maturation, timing of hydrocarbon migration, and modeling of Arctic petroleum resources will be addressed.

Both positions emphasize Re-Os isotopic analysis of organic material beginning with methods already in place at AIRIE. The first position will emphasize sedimentologic and biostratigraphic issues in Mesozoic sections using Re-Os ages and initial Os ratios. The second position will address Re and Os behavior in hydrocarbons during maturation and migration, and distribution of Re and Os among hydrocarbon species under varied conditions.

For both positions, a PhD in Geosciences or a related field is required, as are experience with isotope geochemistry and standard computer skills. For the first position, a background in sedimentology and/or biostratigraphy is desirable. For the second position, facility with organic and/or petroleum geochemistry is desirable. We seek applicants with laboratory skills in preparation of samples for mass spectrometry, instrumental experience, understanding of statistics and laboratory quality control, excellent communication skills, a strong work ethic, and comfort working in a diverse cultural environment.

For further information, see full position descriptions at www.ngu.no or airie.warnercnr.colostate.edu, or contact Dr. Holly Stein, Director, AIRIE Program, at hstein@warnercnr.colostate.edu. To apply, send a statement of qualifications, CV, and names and e-mail addresses of three references as e-mail attachments to Dr. Stein. Review of applications will begin by November 1, 2007, but applications will be accepted until both positions are filled.

Located at the base of the Colorado Rocky Mountains, Fort Collins offers ready access to winter and summer recreational activities, and a supreme living environment in a university town of about 125,000 citizens. The city of Denver with its cultural offerings is 60 miles south of Fort Collins. Denver International Airport is a 70 minute drive, with regular shuttle service.

Colorado State University is an equal opportunity/affirmative action employer and complies with all Federal and Colorado State laws, regulations, and executive orders regarding affirmative action requirements in all programs. The Office of Equal Opportunity and Diversity is located in 101 Student Services Building. In order to assist Colorado State University in meeting its affirmative action responsibilities, ethnic minorities, women and other protected class members are encouraged to apply and so identify themselves.