

The University of Texas at Austin

Postdoctoral position in geomechanics of induced earthquakes

Joint position between

Jackson School of Geosciences, Bureau of Economic Geology (BEG) and
Cockrell School of Engineering, Center for Petroleum and Geosystems Engineering (CPGE)

Description: Depending on qualifications, the postdoctoral researcher will collect and interpret in-situ stress data from well logs, devise and execute numerical geomechanical simulations of poroelastic response of fluid injection in wellbores, and perform Coulomb shear stress analyses of fault populations using deterministic and stochastic approaches. This position will be supervised by Dr. Jon Olson (CPGE) and Dr. Peter Eichhubl (BEG), in collaboration with Dr. Cliff Frohlich (UTIG) and Dr. Julia Gale (BEG).

Desired qualifications: Experience in geomechanical analysis of in-situ stress data, numerical modeling in reservoir geomechanics

Minimum qualifications: Recent (<3 years) PhD in geosciences, petroleum engineering, or a relevant discipline with research focus on reservoir geomechanics. The successful candidates must provide a record of successful collaborative research experiences, be able to work toward project deadlines, and have a willingness to work with industry scientists to apply techniques and research results. The candidate must have a demonstrated record of intent to publish and demonstrated fluency in spoken and written English. The successful applicant will be expected to present at meetings with sponsors, present at conferences, and publish in international journals.

The position is expected to become available in April of 2013, for an initial duration of 1 year, with the possibility of renewal based on satisfactory progress and availability of funds. The successful candidate will join a multidisciplinary team of scientists and engineers within the Center for Petroleum and Geosystems Engineering <http://www.cpge.utexas.edu>, the UT Institute of Geophysics <http://www.ig.utexas.edu/>, and the Fracture Research and Application Consortium (FRAC) <http://www.beg.utexas.edu/frac> research group, a long-standing research program in fundamental and applied fracture research. UT offers competitive salary and benefits, a collaborative research environment, and the facilities of a large research university.

To Apply: Applicants must send a *combined* electronic (pdf) file containing a letter of application, resume with record of publications, brief statement of professional goals with an emphasis on research objectives, and names and addresses of three professional references via e-mail to Dr. Peter Eichhubl, peter.eichhubl@beg.utexas.edu and Dr. Jon Olson, jolson@austin.utexas.edu. Applications will be reviewed until the position is filled. The position may remain unfilled if suitable applications are not received.

The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer. All positions are security-sensitive; conviction verification is conducted on applicants selected.