

POSTDOCTORAL POSITIONS IN STRUCTURE, GEOCHEMISTRY, NUMERICAL MODELING

The University of Texas at Austin
Jackson School of Geosciences
Bureau of Economic Geology

The Bureau of Economic Geology at The University of Texas at Austin invites applications for positions at the postdoctoral level in structural or seismic analysis of fracture systems, in petrology and analytical geochemistry of fracture cements, and in numerical modeling of coupled mechanical/chemical fracture processes. The successful candidates will work, as part of a multidisciplinary team, within the Fracture Research and Application Consortium (FRAC) research group, a long-standing research program in fundamental and applied fracture research. Please visit our Websites for more information (<http://www.beg.utexas.edu/frac> <http://www.jsg.utexas.edu/sdi/>). These positions are available for 1 year with the opportunity for renewal based on satisfactory progress and availability of funds. The positions provide excellent opportunities for scientific achievement and career growth in an exceptional setting. The Bureau offers competitive salary and benefits, a collaborative research environment, and the facilities of a large research university. Please contact Dr. Peter Eichhubl (peter.eichhubl@beg.utexas.edu) for details on these positions.

Position 1. Brittle structural geology/seismology/borehole geophysics

The successful candidate will engage in quantitative characterization of fracture and fault systems in sedimentary sequences using field/core structural and/or seismic/borehole geophysical techniques, statistical analysis, and predictive tools. Applicants must have experience in field/core structural techniques or seismic/borehole geophysical data interpretation or statistical techniques applicable to structural data.

Position 2. Petrology and analytical geochemistry of host rock/fracture systems

The successful candidate will engage in petrography, SEM and CT imaging, and compositional analysis of sedimentary rock and fracture cements. Applicants must have experience in thin-section petrography, with preference given to applicants with additional experience in SEM and microbeam techniques and a strong foundation in mineral/pore fluid geochemistry.

Position 3. Numerical modeling of coupled mechanical and chemical fracture processes

The successful candidate will engage in numerical modeling of coupled brittle deformation and chemical reaction processes. Applicants must have PhD-level experience in chemical reaction modeling, with preference to experience in modeling of chemically reactive deforming media.

Qualifications: In addition to the position-specific qualifications listed above, applicants must have a recent Ph.D. in geology/geophysics/geochemistry or in a related discipline. 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 absolutely must have a demonstrated record of intent to publish.

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 peter.eichhubl@beg.utexas.edu. The positions are available September 1, 2010, and applications will be reviewed until the positions are filled. Positions 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.