The University of Texas at Austin

Postdoctoral position in natural fracture characterization and multiphase flow in fractured formations

Joint position between
Jackson School of Geosciences, Bureau of Economic Geology (BEG) and
Center for Petroleum and Geosystems Engineering (CPE)

Description: The postdoctoral researcher will characterize, image and/or develop three-dimensional, image-informed models for fluid displacement in fractured low permeability porous media. Specific focus will be on matrix-fracture fluid transfer and the influence of fracture cement on flow properties. This position will be supervised by Dr. Maša Prodanović (CPE) and Dr. Peter Eichhubl (BEG).

Desired qualifications: Previous experience in at least one of the following fields: Geologic characterization of brittle structures using petrographic, electron beam, or X-ray techniques and structural/textural image interpretation; modeling and/or program development in C/C++ of pore or fracture-scale flow; experimental flow in porous or fractured media.

Minimum qualifications: Recent (<3 years) PhD in geosciences, petroleum engineering, applied mathematics, or a relevant discipline with research focus on flow in porous or fractured media. 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 available September 1, 2012, 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, 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. Maša Prodanović, masha@ices.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.