The Gulf Coast Carbon Center at the University of Texas at Austin is looking for a Postdoctoral Fellow to work on a project focusing on the leakage risk assessment of geologic CO2 storage. This position is located at the Bureau of Economic Geology at the J.J. Pickle Research Center in North Austin.

Responsibilities

- Conduct research on the risk assessment of CO2 geological storage
- Develop and perform analytical and numerical modeling for multiphase flow in porous media
- Publish technical reports and peer-reviewed publications summarizing research findings
- Present results at sponsor meetings and scientific conferences
- Assists in writing proposals to funding agencies

Required Qualifications

- Background in petroleum engineering, chemical engineering, or closely related discipline
- Understanding of the physics of multiphase flow in porous media
- Experience in numerical simulation of multiphase flow in porous media for CO2 geosequestration applications
- Strong mathematical modeling skills
- Knowledge of wellbore modeling
- Hands-on experience with reservoir simulation software suites such as CMG, ECLIPSE, etc.
- Proven publication skills and Excellent verbal and written communication skills
- Demonstrated ability to handle multiple tasks and assignments simultaneously
- PhD must have been received within 3 years from date of hire

Preferred Qualifications

- Direct expertise in geologic modeling and wellbore integrity
- Experience in reactive transport modeling and geochemistry
- Experience with CCS projects and class VI permitting
- Having knowledge of EPA's Underground Injection Control (UIC) injection well regulations
- Experience in energy and environmental economics

If interested, please send your CV to sahar.bakhshian@beg.utexas.edu