

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 geo-sequestration 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