

PhD Position on Geochemical Modeling for GeoH2  
Production  
Texas Tech University

Direct Link: <https://www.AcademicKeys.com/r?job=233201>

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Posted Mar. 20, 2024, set to expire Jul. 20, 2024

<b>Job Title</b>	PhD Position on Geochemical Modeling for GeoH2 Production
<b>Department</b>	Petroleum Engineering <a href="https://www.depts.ttu.edu/pe/">https://www.depts.ttu.edu/pe/</a>
<b>Institution</b>	Texas Tech University Lubbock, Texas
<b>Date Posted</b>	Mar. 20, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	August 2024
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Energy Technology Chemical/Petroleum
<b>Job Website</b>	<a href="http://www.TheHopeGroup.Tech">http://www.TheHopeGroup.Tech</a>
<b>Apply By Email</b>	<a href="mailto:Qingwang.Yuan@ttu.edu">Qingwang.Yuan@ttu.edu</a>

**Job Description**

**PhD position on geochemical modeling for GeoH2 production**

A funded PhD student position is available in the Department of Petroleum Engineering at Texas Tech University, Texas, USA.

**Research project:**

- Pore- and reservoir-scale geochemical modeling of hydrogen generation and transport from the reactions of iron-rich rocks and water with integrated CO<sub>2</sub> sequestration in the Earth's subsurface.

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**Scholarship:**

- \$29,000/year

**Expected starting time:**

- Fall 2024 or Spring 2025

**Preferred qualifications:**

- Strongly self-motivated with critical thinking ability;
- Sc. in Petroleum Engineering or Chemical Engineering;
- Have at least one journal paper accepted or published;
- GPA > 3.5/4.0;
- Research experiences in ANY of the following areas will be given priority: natural hydrogen generation and migration, CO2 sequestration, reservoir simulations, pore- or reservoir-scale modeling of fluid flows in subsurface porous media, geochemical modeling, discrete fracture network (DFN) modeling, or hydraulic fracturing;
- Familiar with CMG, Eclipse, ToughReact, or MRST;
- Strong background with mathematics or one of the computer programming languages: Fortran, C++, Python, or MATLAB;
- TOEFL, IELTS, or Duolingo score.

**Application:**

Interested applicants please send your CV, transcripts, and at least two recommendation letters to Dr. Qingwang Yuan at [Qingwang.Yuan@ttu.edu](mailto:Qingwang.Yuan@ttu.edu). More information about Dr. Yuan's group can be found at [www.TheHopeGroup.Tech](http://www.TheHopeGroup.Tech).

**Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

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