

Postdoc Position in Reservoir Modeling of Carbon-Free Subsurface Energy Resources

The School of Earth Sciences and the Byrd Polar and Climate Research Center, at the Ohio State University, are seeking a postdoctoral researcher to join an interdisciplinary team that is exploring groundbreaking renewable and carbon-free subsurface energy resources. The project involves close collaboration with an industry partner, facilitating unprecedented access to real field data. Tasks will include translating field data into suitable inputs for reservoir simulations, performing and analyzing compositional multiphase flow and transport simulations with our in-house research reservoir simulator, and adding new capabilities to our modeling toolbox. The successful applicant will play an integral role in supporting the success of high stakes field-scale pilot projects, which will take place within the (2+ year) duration of this position. All previous postdocs in this group have moved onto successful careers in Academia, National Labs, and Industry.

Qualifications: A PhD in relevant Science and Engineering fields (including but not limited to Earth Sciences, (Astro)Physics, Computer Science and Engineering, Petroleum/Chemical/Civil Engineering) with demonstrated prior experience in code development and ideally multiphase flow modeling (e.g., reservoir simulation). Excellent organizational and collaborative skills are required, and strong oral and written communication skills are expected. Applications from historically underrepresented minority candidates are particularly welcome.

Job Responsibility: Expected to conduct independent, high-quality research; publish papers; and present work at national and international conferences.

Start date and duration: Start date is negotiable, but as soon as possible. Two years of funding is currently available with the possibility of extensions based on performance.

Salary: Commensurate with the applicant's experience and education. In addition, Ohio State provides a comprehensive benefits package (<https://hr.osu.edu/new-employees/employees/benefits-overview/>).

To apply: Interested individuals should send a CV, a one-page statement of research interest, and the names and contact information of 3 references to Joachim Moortgat at moortgat.1@osu.edu. Review of applications will begin immediately and continue until the position is filled.

For more information: contact Joachim Moortgat at moortgat.1@osu.edu

Departments:

The School of Earth Sciences: <https://earthsciences.osu.edu>

Byrd Polar and Climate Research Center: <https://byrd.osu.edu>

About OSU & Columbus: OSU is the 3rd largest public university in the country with over 60,000 students, and ample resources and opportunities for collaborations. Its campus is situated within Columbus which is a vibrant and fast growing city with a population of ~1M,

but still affordable and easy to navigate. Many postdocs live within walking/biking distance from campus. Columbus/OSU is increasingly becoming a tech hub, e.g., thanks to Intel's forthcoming 20B\$ investment, the largest in recent US history, in a nearby chip manufacturing plant, as well as the Ohio Supercomputer Center and various major Big Data and Machine Learning/AI initiatives on campus.

Applicants will have to successfully complete a background check.

The Ohio State University is an equal opportunity employer.

All qualified applicants will receive consideration for employment without regard to age, ancestry, color, disability, ethnicity, gender identity or expression, genetic information, HIV/AIDS status, military status, national origin, race, religion, sex, gender, sexual orientation, pregnancy, protected veteran status, or any other bases under the law.