

PENNSSTATE



University
Park

Tenure-Track Faculty Positions in Sedimentary Geology and Geologic Carbon Sequestration

The Department of Geosciences seeks to hire two tenure-track faculty members, one in the area of Sedimentary Systems and the other in Geologic Carbon Sequestration, with a preferred starting date of July 1, 2009. Outstanding candidates who creatively apply theoretical, observational, and/or experimental approaches in their research are encouraged to apply. Applicants should have a doctoral degree in geosciences or related fields and a record of scholarship, and potential for developing a vigorous externally funded research program at Penn State. They are expected to contribute to core teaching in geosciences and interdisciplinary teaching and research.

Geology of Sedimentary Systems

We seek an individual with broad interests in sedimentary geology and the expertise to interpret depositional environments, paleoclimates, sea level changes, and/or coastal evolution from sedimentary facies studies and stratal architecture, and/or to reconstruct sedimentary basin evolution from facies patterns and stratigraphy. Particular consideration will be given to candidates who employ integrative approaches to understanding fundamental sedimentary processes ranging from pore to basin scale, including field-oriented approaches and physical or numerical modeling. Our preference is to make the appointment at the Assistant Professor level, however, outstanding candidates at higher ranks are encouraged to apply.

Geologic Carbon Sequestration

Areas of expertise to be considered include integration of geological, geochemical, and geophysical data to analyze sequestration reservoirs, strategies, and impacts. This includes, but is not limited to, experimental and modeling expertise in formation evaluation, petrophysics, fluid mechanics, and/or kinetics or reactive transport considerations applied to water-rock-hydrocarbon-CO₂ mixtures. Also desirable are candidates who investigate formation characteristics utilizing field data and/or imaging using three-dimensional seismic data analysis through time (4D) to unravel subsurface structure and the temporal evolution of reservoir fluids, stress state, and flow properties such as fracture density, porosity, and permeability distribution. The Carbon Sequestration position is part of a large initiative to hire 24 new faculty members at the University to advance energy-related research and educational activities under the umbrella of the Penn State Institutes of Energy and the Environment (PSIEE). We prefer to fill this position at the Assistant Professor level, however, outstanding candidates at higher ranks are encouraged to apply.

Review of applications will begin November 1, 2008 and will continue until a suitable candidate is found. Applications should include a complete vita, a statement outlining teaching and research interests, and names and addresses of four or more references. Send application materials to: Search Committee Chair, 503 Deike Building, The Pennsylvania State University, University Park, PA 16802.

We encourage applications from individuals of diverse backgrounds. For more information on the Department of Geosciences and PSIEE, go to <http://www.geosc.psu.edu> and <http://www.psiee.psu.edu>.

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

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