Post Doctorate RA - Integrated Terrestrial Surface/Subsurface modeling

Locations: RICHLAND, WA
Categories: Post-Graduates and Post-Docs

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Job ID: 306777
Full/Part Time: Full-Time
Regular/Temporary: Temporary

Job Description

The Pacific Northwest National Laboratory (PNNL) seeks a postdoctoral researcher for research related to observing and/or modeling of coupled terrestrial surface and subsurface hydrological and biogeochemical processes. As part of a multi-disciplinary team of scientists in land surface modeling, watershed hydrology, hydrogeology, and subsurface biogeochemistry, the selected candidate is expected to participate in the development of an integrated land surface/subsurface model and apply it to understand effects of variations in the hydrologic cycle and climate change on coupled hydrologic and biogeochemical processes in the groundwater-surface water interaction zone, their impacts on local to regional scale land-atmosphere interactions, and in turn climate.

Equal Employment Opportunity

PNNL is an Equal Opportunity/Affirmative Action Employer that is committed to hiring a diverse, talented workforce. EOE Disability/Vet/M/F/Sexual Orientation/Gender Identity. Staff at PNNL must be able to demonstrate the legal right to work in the United States.

Minimum Qualifications

Candidates must have received a PhD within the past five years (60 months) or within the next 8 months from an accredited college or university.

Preferred Qualifications

A Ph.D. in Engineering (Civil, Geological, or Environmental), Hydrology, Geoscience, Atmospheric Sciences, or related fields is required. Candidates with experience in (1) land surface and climate modeling; (3) watershed modeling; (3) characterizing hyporheic zone and subsurface properties by collecting and analyzing field and lab measurements; (4) conceptualization, design, and application of subsurface flow and transport models; (5) fluency in one or more programming languages and/or Geographic Information Systems and Geostatistical packages; (6) fluency with LINUX operating system and parallel programming

paradigms on high-performance computers are strongly preferred. Because visible scientific accomplishments are key to the success of our project team, the candidate must have demonstrated excellent communication skills as evidenced by publications in top-tier journals and presentations at professional conferences. Proactive and timely publication is an essential requirement. Cover letter describing applicants' research experience and interests, and curriculum viate with a list of publications in referenced journals desired.

Organization and Job ID

Job ID: 306777
Directorate: Earth & Biological Sciences
Division: Atmospheric Sciences & Global Change
Group: Advanced Study & Development