

Research Scientist and Postdoctoral Positions in Modeling Terrestrial Hydrology at PNNL

The Atmospheric Sciences and Global Change Division at Pacific Northwest National Laboratory (PNNL) is recruiting a research scientist and a postdoctoral scientist to conduct innovative research in modeling terrestrial hydrology in Earth System Models.

Resources on relevant projects and information:

1. <https://climatemodeling.science.energy.gov/projects/accelerated-climate-modeling-energy>
2. <https://climatemodeling.science.energy.gov/projects/developing-regional-integrated-assessment-model-framework>
3. <http://energy.gov/under-secretary-science-and-energy/downloads/water-energy-nexus-challenges-and-opportunities>
4. <http://eesa.lbl.gov/ngee-tropics/>

1. Research Scientist – Modeling Terrestrial Hydrology in the Earth System

PNNL is recruiting a research scientist to advance modeling and understanding of terrestrial hydrological processes in the Earth system. The successful candidate will conduct research to improve representation of surface/subsurface hydrologic processes focusing on one or more of the following areas: soil hydrology, riverine processes, terrestrial-aquatic interactions, carbon-hydrology interactions, and the coupled human-natural processes. Combined with observations, the candidate will also work with a team of PNNL scientists to design, perform, and analyze modeling experiments to understand the role of terrestrial hydrological processes in the Earth system, including their response and feedback to perturbations.

Qualifications: A Ph.D. degree in hydrological sciences, environmental and civil engineering or related fields. Experience with hydrologic modeling and high performance computing will be considered favorably during the evaluation.

Applications should include:

- Cover letter describing the applicant's research experience and interests.
- Curriculum vitae with a list of publications in refereed journals.
- Names and addresses of three references.

Interested candidates may send further inquiries to Ruby Leung (Ruby.Leung@pnnl.gov).

To apply, please visit <http://jobs.pnnl.gov> and search for job ID 306092.

2. Postdoctoral Scientist – Modeling Hydrologic Response to Human Activities

PNNL is recruiting a postdoctoral scientist to improve modeling of the hydrologic response to human activities such as land use land cover change, irrigation, water management, and energy production and use. The successful candidate will advance a modeling framework consisting of a land surface model coupled with a river model and a water management model as part of an Earth system model for high-resolution modeling. Working with PNNL scientists, the candidate will also develop diagnostics and metrics to understand and quantify model skill and elucidate key processes dominating the hydrologic response to human activities and potential feedbacks.

The position is for two years and renewable contingent upon performance. A Ph.D. in Hydrology, Civil and Environmental Engineering, Geoscience, or related subjects is required. Applications should include:

- * Cover letter describing the applicant's research experience and interests.
- * Curriculum vitae with a list of publications in refereed journals.
- * Names and addresses of three references.

Interested candidates can obtain additional information from L. Ruby Leung (Ruby.Leung@pnnl.gov).

To apply, please visit <http://jobs.pnnl.gov> and search for job ID 306133.