

# Post Doctorate RA - : Quantifying impacts of land use and land cover change on terrestrial water and carbon cycling using an Earth system modeling approach

Locations: RICHLAND, WA

Categories: Post-Graduates and Post-Docs

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**Job ID:** 306776

**Full/Part Time:** Full-Time

**Regular/Temporary:** Temporary

## Job Description

The Pacific Northwest National Laboratory (PNNL) seeks a creative postdoctoral researcher for research related to modeling of terrestrial ecosystem processes using an Earth system approach, focusing on understanding and quantifying effects of land use and land cover changes in the historical period and under projected climatic and social-economic changes. The selected candidate is expected to participate in the development of land models, to improve their capability in representing plant functional traits and management options in forest and agro-ecosystems using an Earth system modeling framework, and apply it to quantify water, energy, and carbon fluxes associated with land use and land cover change in a changing 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. Environmental and Natural Resources sciences, Atmospheric Sciences, Ecology, Environmental Engineering, or related fields is required. Candidates with experience in (1) land surface model (e.g., Community Land Model) development and applications; (2) Geographic Information Systems and Geostatistical packages; (3) fluency in one or more programming and scripting languages (e.g., FORTRAN, C, C++, bash, perl, python); (4) 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. Cover letter describing applicants' research experience and interests, and curriculum vitae with a list of publications in referenced journals desired.

**Organization and Job ID**

Job ID: 306776

Directorate: Earth & Biological Sciences

Division: Atmospheric Sciences & Global Change

Group: Advanced Study & Development