

## **Research Scientist – Modeling Water Cycle and Climate Extremes**

PNNL is recruiting a research scientist to advance modeling and understanding of water cycle and climate extremes, particularly related to convection, cloud, and precipitation and their interactions with the large-scale circulation. The successful candidate will conduct research to advance a non-hydrostatic global variable resolution modeling framework for multi-resolution simulations through development/evaluation of parameterizations and improvement/analysis of the physics-dynamics coupling in the modeling framework. The candidate will work with a team of PNNL scientists to design, perform, and analyze hierarchical modeling experiments to investigate how water cycle and climate extremes respond to warming in the future. Specific topics of climate extremes that expand and complement existing PNNL research in the Department of Energy funded WACCEM project include atmospheric rivers, temperature and precipitation extremes, and floods and droughts.

Qualifications: A Ph.D. degree in atmospheric sciences or related fields. Expertise in modeling or process understanding of cloud and convection or related processes such as boundary layer turbulence and land-atmosphere interactions as well as experience with 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](mailto:Ruby.Leung@pnnl.gov)<<mailto:Ruby.Leung@pnnl.gov>>).

To apply, please visit <http://jobs.pnnl.gov> and search for job ID 305976.