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Opportunity Title: Earth Science: Remote Sensing and Modeling of the Global Water and Energy Cycle
Opportunity Reference Code: 0057-NPP-MAR25-GSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0057-NPP-MAR25-GSFC-EarthSci

How to Apply All applications must be submitted in Zintellect

Please visit the NASA Postdoctoral Program website for application instructions and requirements: How to Apply | NASA Postdoctoral Program (orau.org)

A complete application to the NASA Postdoctoral Program includes:

1. Research proposal
2. Three letters of recommendation
3. Official doctoral transcript documents

Application Deadline 3/1/2025 6:00:59 PM Eastern Time Zone

Description **About the NASA Postdoctoral Program**

The NASA Postdoctoral Program (NPP) offers unique research opportunities to highly-talented scientists to engage in ongoing NASA research projects at a NASA Center, NASA Headquarters, or at a NASA-affiliated research institute. These one- to three-year fellowships are competitive and are designed to advance NASA's missions in space science, Earth science, aeronautics, space operations, exploration systems, and astrobiology.

Description:

The Hydrological Sciences Laboratory at NASA's Goddard Space Flight Center is seeking a post-doc candidate to conduct research in the area of the global water and energy cycle. The Lab has expertise in ground- and space-based observation and modeling of soil moisture, snow, and terrestrial water storage. The ideal candidate will have demonstrated an active research interest in the observation, analysis, modeling, and prediction of the global water and energy cycle systems (i.e. ocean, land, and atmosphere). The candidate would be expected to work with experts in the NASA/GSFC Hydrological Sciences Lab towards the goal of producing a comprehensive understanding of the global water and energy cycles and to advance the prediction of water and energy cycle consequences of earth system and variability and change. In addition, applications-oriented projects that leverage new or existing partnerships to provide information to water managers to improve water resources management and support risk-based decision making are strongly encouraged. Scientific endeavors could involve identifying and bridging gaps in the technological, observational, and modeling activities not only within NASA, but also in partnership with other scientific and application agencies that serve to advance the objectives of the NASA GSFC Food Security Center, the administration's Climate Change Science Program (CCSP), or the U.S. Global Change Research Program (USGCRP). Additional examples include using NASA

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Earth Science data and tools for improving the monitoring and forecasting of droughts, floods, and improving the characterization of water use and demand. Therefore, the interests of the candidate should consist of a considerable degree of scientific and programmatic diversity, flexibility, and creativity. The candidate could contribute to NASA's water and energy cycle observation and prediction capabilities and will facilitate national, inter-agency, and international partnerships. Through collaboration with NASA's Global Modeling and Assimilation Office (GMAO), Hydrological Sciences Lab (HSL) coupled climate model simulations (from an atmospheric general circulation model, and a land surface hydrology model), as well as customized land data assimilation systems are available for studies of global hydrological processes and their temporal variability.

Location:
Goddard Space Flight Center
Greenbelt, Maryland

Field of Science: Earth Science

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Applications with citizens from Designated Countries will not be accepted at this time, unless they are Legal Permanent Residents of the United States. A complete list of Designated Countries can be found at: https://www.nasa.gov/oiir/export-control.

Eligibility is currently open to:

- U.S. Citizens;
- U.S. Lawful Permanent Residents (LPR);

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- Foreign Nationals eligible for an Exchange Visitor J-1 visa status; and,
- Applicants for LPR, asylees, or refugees in the U.S. at the time of application with 1) a valid EAD card and 2) I-485 or I-589 forms in pending status

Questions about this opportunity? Please email npp@orau.org

Point of Contact Mikeala Lambertucci

Eligibility Requirements

- **Degree:** Doctoral Degree.