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Opportunity Title: Integration of remote sensing data and improved physical process representation in NASA modeling systems
Opportunity Reference Code: 0326-NPP-MAR26-GSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0326-NPP-MAR26-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 4/2/2026 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 on the integration of remote sensing data and models to improve the physical process understanding of hydrometeorological processes. This includes physical processes such as streamflow, evapotranspiration, and interactions with other earth systems such as the atmosphere. Applications to consider extreme events such as floods, droughts, and wildfires are also encouraged. Research topics related to remote sensing data include surface data-assimilation, land surface model and hydrologic model calibration, and use of artificial intelligence to improve existing methods in these areas. Topics related to model development include improvement of surface and groundwater hydrologic processes and coupling with the atmosphere at regional scales. The Hydrological Sciences Laboratory includes the Land Information System (LIS), the NASA-Unified Weather Research and Forecasting (NU-WRF), and the NASA-Land-Coupler (NLC) modeling assets, as well as expertise with remote sensing data, snow hydrology, landslides, and applications for disasters.

Field of Science: Earth Science

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Advisors:

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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);
- 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

Qualifications Ideal candidates for this position should have interest in hydrologic processes and their impacts on other parts of the earth system, as well as past experience with use of modeling systems and processing observation datasets (including remote sensing data). Candidates are encouraged to collaborate with other groups within the Hydrological Sciences Laboratory and other labs within the Goddard Space Flight Center Earth Sciences Division.

Point of Contact Mikeala

Eligibility Requirements

- **Degree:** Doctoral Degree.