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Opportunity Title: Earth Science: Data Assimilation for Earth Science
Opportunity Reference Code: 0019-NPP-MAR26-GSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0019-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:

This opportunity is closed to applicants who are Senior Fellows (5-years or more past PhD).

The Global Modeling and Assimilation Office (GMAO) supports the modeling and data assimilation needs of NASA's Earth science mission, to characterize, understand, and predict how the Earth as a system is changing on both weather and climate time scales. The GMAO develops the Goddard Earth Observing System (GEOS) model and data assimilation system, including comprehensive atmosphere, ocean, ice, and land surface components. Along with the analysis and prediction of weather and seasonal climate states, GMAO's efforts encompass atmospheric air quality, ocean biogeochemistry, and the carbon cycle. Potential research activities include:

- developing the underlying model components to improve the representations of processes and the coupling among different processes in the Earth system
- development of advanced modeling techniques based on Artificial Intelligence/Machine Learning
- developing and applying new techniques to assimilate NASA's Earth observations and assessing their impacts on prediction on timescales that span weather to seasons

- focused model experimentation to identify the mechanisms of change in the Earth system.

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);
- 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

Eligibility Requirements

- **Degree:** Doctoral Degree.