zintellect
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Opportunity Title: Development of cloud models using artificial intelligence
Opportunity Reference Code: 0286-NPP-MAR26-GSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0286-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 representation of clouds in atmospheric models constitutes a major source of uncertainty in climate predictions. This is not only because of their complexity and gaps in our understanding of cloud physics, but also because of the scale at which many of the processes affecting clouds occur. This project seeks to develop artificial intelligence (AI) models of cloud physics using major datasets maintained at The NASA Global Modeling and Assimilation Office. These include climate reanalyses, long term reforecasts, satellite retrievals and global kilometer-scale atmospheric simulations. The AI models would be implemented in global climate models to enhance NASA's climate forecasting capabilities and investigate scientific questions on the interaction of human activities and climate.

Field of Science: Earth Science

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

Climate modeling

STEM background

Familiarity with machine learning models

Good oral and written communication skills

Point of Contact Mikeala

Eligibility Requirements

- **Degree:** Doctoral Degree.