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Opportunity Title: Investigation of analyzed and simulated aerosols in the Goddard Earth Observing System (GEOS)
Opportunity Reference Code: 0295-NPP-MAR26-GSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0295-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).

A unique feature of the Goddard Earth Observing System (GEOS) model is the ability to run simulations with interactive aerosols in unique configurations designed for numerical weather prediction, seasonal prediction, and reanalysis. Analyses and forecasts produced with these configurations can provide a wealth of data to improve our understanding of aerosol interactions with other components of the Earth system on regional and global scales. Potential research proposals on this topic are welcomed in areas including:

1. Validation of aerosol properties in GEOS using satellite, airborne, and surface-based observations

2. Using GEOS reanalysis products to connect regional and/or global aerosol to climate variability

3. Assessing air quality and its impact on human health

4. Improving the representation of aerosols through model and parameterization updates

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5. Forecasting of extreme events

This opportunity will entail working in the NASA high performance computing environment.

Field of Science: Earth Science

Advisors:

Michael Bosilovich
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Qualifications Recently completed PhD in Atmospheric Sciences or relevant sciences, and a proven record of publishing peer reviewed manuscripts on past research

Past work in numerical modeling or aerosol science and some coding experience (Fortran or Python) will be useful in this work.

Point of Contact Mikeala

Eligibility Requirements

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Doctoral Degree.