Opportunity Title: Ocean Modeling & Analysis
Opportunity Reference Code: 0010-NPP-MAR26-GISS-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0010-NPP-MAR26-GISS-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 ocean plays a critical role in the Earth System taking up heat and carbon and other gases and trace elements and thereby helping regulate climate and climate change. At the same time the ocean undergoes significant changes, both in terms of natural variability as well as due to extreme events and climate change trends. At NASA-GISS we are seeking to better understand all ocean related processes, using models, the coupled climate model, *modelE*, as well as the *NASA-GISS modelE-ESM*, reanalysis products, observations, and machine learning, in present, past and future climates as well as in exoplanets. The science themes in this call can be in any of the following broad areas:

1. Uptake of heat and carbon in the Earth System; including studies of biogeochemical cycles, response to zero emissions and marine CDR

2. Marine Extremes, such as marine heatwaves, low oxygen or high acidity extremes and others.

3. Stability of the Atlantic Meridional Overturning Circulation, including fingerprints of AMOC collapse; and early warning signals

4. Emulators of climate scenarios; using machine learning or other

Opportunity Title: Ocean Modeling & Analysis
Opportunity Reference Code: 0010-NPP-MAR26-GISS-EarthSci

statistical techniques.

Successful proposals will leverage observational and observation-based data of relevant geophysical variables, with emphasis in NASA mission products, reanalysis products, data assimilation & inverse models, and climate or ocean-only models, high resolution, regional or process models. The use of innovative analysis techniques, particularly machine learning, is encouraged.

Applicants preferred area of study: Mathematics/Physics/Engineering, Climate Science
Applicants desirable programing skills: Fortran, python, MATLAB or other similar visualization & analysis software.

Location:
Goddard Institute for Space Studies
New York City, New York

Field of Science: Earth Science

Advisors:
Anastasia Romanou
anastasia.romanou@nasa.gov
212-678-5520

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.