

Opportunity Title: Research Associate

Opportunity Reference Code: 0095-NPP-MAR26-JPL-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0095-NPP-MAR26-JPL-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:

We invite applications for a postdoctoral researcher position focused on advancing carbon cycle science by improving carbon cycle simulations using satellite observations and advanced computational techniques.

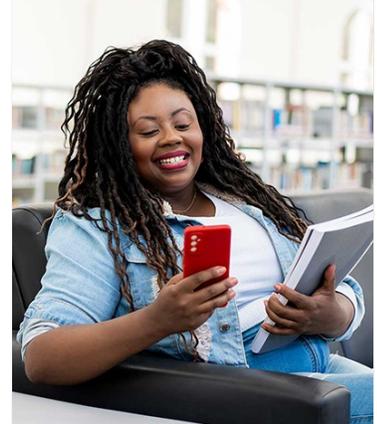
The successful candidate will utilize a large perturbed parameter ensemble and a machine learning-based emulator developed from the Community Earth System Model to:

1. Quantify and diagnose model biases in ecosystem responses to climatic drivers across different plant functional types and geographic regions;
1. Identify key model parameters responsible for these biases;
1. Constrain these parameters by minimizing mismatches between simulated and observed sensitivities of carbon cycle variables.

Applicants should hold a Ph.D. in Earth science, mathematics, or a related field. Preferred qualifications include experience in terrestrial carbon cycle science, data assimilation, and large-scale Earth system modeling.

Location:

Jet Propulsion Laboratory
Pasadena, California



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Field of Science:Earth Science

Advisors:

Junjie Liu

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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/oiiir/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@oraui.org

Point of Contact [Mikeala](#)

Eligibility Requirements • **Degree:** Doctoral Degree.