Opportunity Title: Remote Sensing Analysis of Bioclimatic Controls on Ecosystem Productivity
Opportunity Reference Code: 0188-NPP-MAR26-JPL-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0188-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 3/1/2026 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 research opportunity seeks innovative work to identify biochemical and environmental controls on ecosystem productivity. The approach is to combine observations of solar induced chlorophyll fluorescence (SIF) from a growing network of tower, airborne, and spaceborne sensors, with ancillary biometeorological data, to explore the functioning of photosynthesis under different light, temperature, and moisture conditions and canopy structures. Analysis of ecosystem productivity in the context of a carbon cycle data assimilation system, in which model equations are confronted with a suite of vegetation, carbon, and water cycle observations and weighted by their respective uncertainties, is highly desired. Incorporation of observations from OCO-2, TROPOMI, and ground sensors (e.g., Grossman et al., 2018) are likely to provide significant advances.

References:

Grossmann, K., Frankenberg, C., Magney, T. S., Hurlock, S. C., Seibt, U., & Stutz, J. (2018). PhotoSpec: A new instrument to measure spatially distributed red and far-red Solar-Induced Chlorophyll Fluorescence. Remote sensing of environment, 216, 311-327.

Location:

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Jet Propulsion Laboratory
Pasadena, California

Field of Science: Earth Science

Advisors:
Nicholas Parazoo
nicholas.c.parazoo@jpl.nasa.gov
9706727410

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.