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Opportunity Title: Cross-scale thermal remote sensing of biospheric function
Opportunity Reference Code: 0325-NPP-MAR26-GSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0325-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:

Advances in thermal remote sensing are providing new insights into plant water use as well as impacts of heat and drought. Tiered monitoring and measurement approaches using in-situ, drone, aircraft and space-based retrievals of surface emissivity, temperature, and evapotranspiration cover a range of processes linked to leaf, canopy and landscape scales. NASA's current and upcoming thermal missions like ECOSTRESS, SBG, and Landsat-Next enable further development of such a tiered approach, while also necessitating in-situ validation. To understand plant water use and temperature limits across scales and biomes, and to better integrate tiered measurement systems with new multi-spectral thermal imaging missions, we are looking for a post-doctoral candidate with expertise in plant ecophysiology and thermal remote sensing. The candidate will be expected to lead and design research that utilizes a range of spectroscopic techniques to address key and cutting edge questions in plant to ecosystem water use and impacts of climate variability and trends.

Field of Science: Earth Science

Advisors:

Shawn Serbin
shawn.p.serbin@nasa.gov

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301-614-5947

Questions about this opportunity? Please email npp@orau.org

Qualifications Qualifications include curiosity and a passion for systems approach toward developing a scientific understanding of the Earth system. Subject matter expertise in ecophysiology, biogeochemistry, remote sensing and field ecology are desired. Programming experience in R, Python or other similar computing languages, as well as experience in code versioning software such as GitHub. The position is expected to lead to peer-reviewed publications and presentations at major scientific conferences.

Point of Contact Mikeala

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Doctoral Degree.