

Opportunity Title: Understanding Atmospheric Composition and Change Through Long-Term Ground-Based Remote Sensing Observations

Opportunity Reference Code: 0341-NPP-NOV26-JPL-EarthSci

Organization National Aeronautics and Space Administration (NASA)

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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 11/1/2026 6:00:59 PM Eastern Time Zone

Description About the [NASA Postdoctoral Program](#)

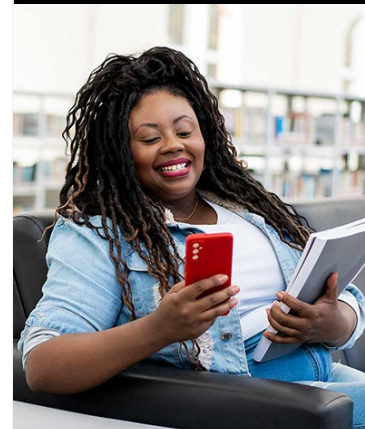
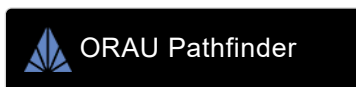
The [NASA Postdoctoral Program \(NPP\)](#) offers unique research opportunities to highly-talented scientists to engage in ongoing NASA research projects at a NASA Center, NASA Headquarters, or at a NASA-affiliated research institute. These one- to three-year fellowships are competitive and are designed to advance NASA's missions in space science, Earth science, aeronautics, space operations, exploration systems, and astrobiology.

Description:

This research opportunity focuses on ground-based remote sensing of atmospheric composition using high-resolution UV-visible-near infrared spectroscopy at JPL's Table Mountain Facility (TMF). For more than 25 years, TMF observations have provided unique long-term measurements of key atmospheric constituents in support of NASA's Atmospheric Composition objectives and satellite calibration/validation activities. Current capabilities include the Fourier Transform Ultraviolet Spectrometer (FTUVS), which measures column abundances of OH, and the Medium-resolution Ultraviolet Grating Spectrograph (MUGS), which performs direct solar, lunar, and scattered skylight measurements of species including BrO, NO₂, and NO₃.

We are seeking a postdoctoral scholar to advance the analysis and interpretation of long-term atmospheric composition records. Research areas may include, but are not limited to, investigating trends in HO_x, NO_x, and BrO chemistry, quantifying impacts on stratospheric ozone production and loss processes, studying atmospheric responses to episodic events, comparing ground-based observations with satellite datasets and atmospheric models, and developing new retrieval algorithms.

Field of Science: Earth Science



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Advisors:

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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.