Opportunity Title: Stratosphere and Upper Troposphere Water Vapor Observations by SAGE
Opportunity Reference Code: 0046-NPP-NOV26-LRC-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:

Stratospheric water vapor (SWV) is a key element in the energy budget (climate), with a strong positive radiative forcing. It also influences stratospheric aerosol microphysics and is implicated in global ozone depletion. The Stratospheric Aerosol and Gas Experiment (SAGE) is a series of instruments designed by NASA to observe aerosols, ozone, water vapor and other trace gases in the stratosphere and upper troposphere to enhance our understanding of ozone layer recovery and processes influencing climate. SAGE III is the newest and most advanced addition to the SAGE family, with the latest unit installed externally on the International Space Station (ISS) in February 2017. SAGE III/ISS water vapor measurements are an important component to the current climate observing system for SWV, complementing data from the Microwave Limb Sounder on Aura and the Atmospheric Chemistry Experiment Fourier Transform Spectrometer on SCISAT-1, and potentially the only climate-quality space-based SWV observations by the end of the decade as other sensors are phased-out. The SAGE Mission is seeking qualified candidates to conduct research activities that advance the maturity of this increasingly important upper atmosphere water vapor product: including, for example, studies that improve and assess the data accuracy, precision, and robustness. Application of dataset improvements to answer relevant questions in Earth System science is also a goal of this opportunity. Efforts

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are expected to be conducted in collaboration with the SAGE algorithm/data processing and validation teams, as well as the broader SAGE science team and user community.

Field of Science: Earth Science

Advisors:

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(757) 864-2966

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

Qualifications Candidate should have doctoral degree in physical sciences or engineering-physics, experience with retrieving vertical profiles of constituents in the stratosphere with passive remote sensing techniques and excellent written and verbal communication in English. Demonstrated skill in the area of atmospheric radiative transfer is favorable.

Point of Contact Mikeala

Eligibility Requirements

- **Degree:** Doctoral Degree.