

Opportunity Title: Aerosol and Cloud Remote Sensing using Lidar

Opportunity Reference Code: 0006-NPP-MAR26-GSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0006-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 \(oua.org\)](#).

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:

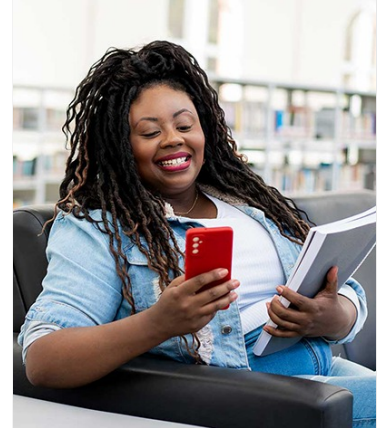
New techniques and instrumentation are developed and applied for remote atmospheric measurements. Current research includes cloud and aerosol studies using space-based lidars such as the Cloud-Aerosol Transport System (CATS) on the ISS and the Ice, Cloud, and land Elevation Satellite-2 (ICESat-2), as well as lidar instrumentation operated from high-altitude NASA research aircraft (Cloud Physics Lidar and the Roscoe upper troposphere/lower stratosphere lidar). Additional projects include the development of machine learning and advanced data processing algorithms, and participation in upcoming field campaigns such as the INjected Smoke and PYRocumulonimbus Experiment (INSPYRE). Active lidar sensing is employed in conjunction with advanced visible and IR sensors, and other atmospheric radiation measurements in atmospheric field programs. Development and application of new lidar technology and machine learning methods are emphasized. We investigate and interpret observations from multiple sensors to characterize the physical, radiative, and dynamical cloud and aerosol properties.

Location:

Goddard Space Flight Center
Greenbelt, Maryland

Field of Science:Earth Science

Advisors:



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Meloe Kacenenbogen
meloe.s.kacenenbogen@nasa.gov
301.614.6221

John E. Yorks
john.e.yorks@nasa.gov
301-614-6284

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/oior/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.