

Opportunity Title: Aerosol and Cloud Remote Sensing using Lidar

Opportunity Reference Code: 0006-NPP-JUL25-GSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0006-NPP-JUL25-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 7/1/2025 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 opportunity is closed to applicants who are Senior Fellows (5-years or more past PhD).

New techniques and instrumentation are developed and applied for remote atmospheric measurements. Current research includes cloud and aerosol observations by space-based lidar such as the Cloud-Aerosol Transport System (CATS) on the ISS (McGill and Yorks), development of future space lidar systems and advanced data processing algorithms (CATS, ACE, others), instrumentation operated from high-altitude NASA research aircraft (Cloud Physics Lidar, airborne HSRL and Doppler wind lidar, new systems in development), and a global network of ground based lidars (MPLNET, Welton). 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 is emphasized. This technology includes Doppler lidar for wind measurements, and development of new cloud-aerosol lidar techniques. We investigate and interpret observations from multiple sensors to characterize the physical, radiative, and dynamical cloud and aerosol properties. Mobile, ground-based, and airborne lidars are available for field campaign studies of clouds and aerosols.



Whether you are just starting your career or already at a senior level, ORAU offers internships, fellowships, research opportunities, and contract positions that can provide you with invaluable experience. Download the ORAU Pathfinder mobile app and find the right opportunity to propel you along your career path!

Visit ORAU Pathfinder [↗](#)



Opportunity Title: Aerosol and Cloud Remote Sensing using Lidar

Opportunity Reference Code: 0006-NPP-JUL25-GSFC-EarthSci

Location:

Goddard Space Flight Center
Greenbelt, Maryland

Field of Science:Earth Science

Advisors:

Edward P. Nowottnick
edward.p.nowottnick@nasa.gov
301-614-6553

Ellsworth J. Welton
Ellsworth.J.Welton@nasa.gov
301-614-6279

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/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@oraui.org

Point of Contact [Mikeala](#)

Eligibility Requirements • **Degree:** Doctoral Degree.