

**Opportunity Title:** Lidar Measurement and Analysis of Atmospheric Parameters

**Opportunity Reference Code:** 0044-NPP-NOV23-GSFC-EarthSci

**Organization** National Aeronautics and Space Administration (NASA)

**Reference Code** 0044-NPP-NOV23-GSFC-EarthSci

**Application Deadline** 11/1/2023 6:00:59 PM Eastern Time Zone

**Description** Research centers on measurements of a number of important atmospheric parameters, such as trace gases and aerosols in the troposphere and stratosphere. Specifically, candidates will conduct research investigations to understand atmospheric trace gases and their role in both tropospheric air quality and stratospheric ozone monitoring. This includes tropospheric pollution monitoring and their impacts on atmospheric chemistry. Candidates who have experience in active remote sensing of parameters such as winds, temperature, and water vapor content are also encouraged to apply.

Candidates should have experience in the design, construction and operation of LIDAR instrumentation for the remote sensing of atmospheric chemical constituents and meteorological parameters. They should also be able to facilitate LIDAR expertise in incorporating theoretical and working understanding of laser technology, specifically those emitting from the IR to UV. Experience is preferred in concept development, proposal writing, and overall technical insight for developing new LIDAR systems for automated operations in remote locations and for aircraft flights.

**Location:**

Goddard Space Flight Center  
Greenbelt, Maryland

**Field of Science:**Earth Science

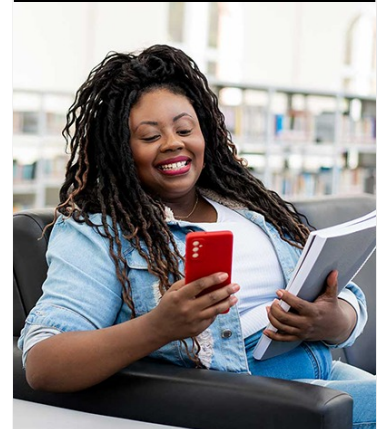
**Advisors:**

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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/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



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