

Opportunity Title: Earth Science: Ozone: Stratosphere-Troposphere Chemistry and Dynamics

Opportunity Reference Code: 0059-NPP-NOV23-GSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

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

Description Constituents of the stratosphere and troposphere including ozone play a crucial role in the biosphere-ocean-atmosphere system. Our work focuses on using information from satellite remote sensing (Aura, Suomi NPP, DSCOVR, UARS), suborbital aircraft missions (ATom, HIPPO), and ground-based observation networks (NDACC, SHADOZ, Pandora) in concert with the Goddard Earth Observing System Chemistry-Climate Model (GEOSCCM) and a Chemistry and Transport Model (CTM) to develop process-level understanding of atmospheric composition, its variability, geophysical trends, and future evolution. Knowledge of stratospheric and tropospheric chemistry, radiation, and dynamics is necessary for understanding distributions and trends in these constituents as well as human-induced changes from ozone depleting substances and greenhouse gases. This understanding must be derived in the presence of natural variability as a result of various sources of global change and by using a combination of modeling and observations.

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



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pending status

Eligibility Requirements

- **Degree:** Doctoral Degree.