Opportunity Title: Earth Science: Climate and Radiation Processes
Opportunity Reference Code: 0011-NPP-NOV23-GSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0011-NPP-NOV23-GSFC-EarthSci

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

Description This research topic focuses on understanding physical processes in the atmosphere and at the surface that affect radiation balance of the Earth's climate. Specific topics include: (1) radiative effects, and dynamic and thermodynamic processes affecting the generation, maintenance, and dissipation of clouds; (2) optical and micro- and macro-physical properties of clouds; (3) radiative, sensible, and latent heat fluxes at the surface of the ocean and land; and (4) the greenhouse effect of clouds, water vapor, and other atmospheric constituents, including the detection and analysis of climate variability and trends from long-term satellite data. The investigations can be based on either satellite measurements, such as cloud properties derived from the MODIS, MISR, VIIRS instruments and the Cloudsat and CALIPSO satellites, or surface observations such as those by the Department of Energy's Atmospheric Systems Research program. Research can also revolve around developing new and improved techniques for remote sensing of atmospheric and surface parameters from Terra, Aqua, and DSCOVR, as well as NOAA operational satellites. Opportunities may exist to participate in national and international field experiments and to analyze aircraft measurements.

Location:
Goddard Space Flight Center
Greenbelt, Maryland

Field of Science: Earth Science

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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.

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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

Eligibility Requirements

- **Degree:** Doctoral Degree.