

**Opportunity Title:** Polar Atmospheric Processes and Their Interactions with the Surface

**Opportunity Reference Code:** 0183-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** The Earth's Arctic and Antarctic regions are experiencing unprecedented changes, which will have profound effects on the global climate, society and biodiversity. Given the complexity of polar climate, a complete understanding requires a continuous effort in observation, modeling, and a thorough analysis of each component and their interactions.

This research focuses on studying the Arctic/Antarctic atmospheric processes and their interactions with the ice sheets and the oceans. Specific topics include (1) polar radiative processes; (2) properties of cloud and blowing snow over the polar regions; (3) effects of cloud and other atmospheric events, e.g., blowing snow, on polar radiation budget and surface melting; and (3) polar boundary layer processes. Research tools include radiative transfer simulations, numerical modeling and remote sensing. Both surface observations and data from NASA's satellites are used for the investigations.

**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/oiiir/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

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



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