

Opportunity Title: Earth Science: Planetary Atmospheres

Opportunity Reference Code: 0003-NPP-NOV23-GISS-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: Research into planetary atmospheres includes observational and theoretical components based on our solar system, as well as new observations of extra-solar planets. We use observations of planetary radiation-budgets, orbital configurations, temperature-soundings, photometric, and polarization measurements from a various orbiters and telescopes. Modeling includes interpretation of radiation measurements of planets to deduce bulk atmospheric composition and thermal structure, and the nature and distribution of clouds and aerosols. Research in atmospheric dynamics uses data from the Cassini Imaging Science Subsystem to document the global circulation and cloud patterns on Saturn and Titan, with special emphasis on how moist convection interacts with the larger-scale dynamics. Emphasis in the theoretical program is on the use of comprehensive general circulation models as comparative planetology tools to define the habitable zone for extra-solar planets, and to build links across all terrestrial planet climate models, including Earth.

Location:

Goddard Institute for Space Studies
New York City, New York

Field of Science:Earth Science

Advisors:

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212-678-5595

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:



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- 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.