

**Opportunity Title:** Interactions between mid-latitude atmospheric dynamics and the Earth's water and energy cycles

**Opportunity Reference Code:** 0009-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** Atmospheric dynamics play a key role in determining the nature and strength of radiative and hydrologic climate feedbacks. Changes in climate will affect the major features of the atmospheric circulation, from the Hadley cell to the baroclinic jets, and these changes will feed back on the properties of the cloud, radiation, and precipitation fields. These radiative and hydrologic climate feedbacks are highly significant in determining the overall impact of climate change. The research questions that arise relate to the potential changes in the atmospheric circulation with climate warming and the related changes in the global cloud, radiation, and precipitation fields. We use a combined investigation of in situ observations, remote sensing and climate model simulations to analyze atmospheric dynamics properties and processes and their effects on the water and energy cycles, and to evaluate the ability of models to simulate those interactions and produce credible projections of future change in these quantities.

**Location:**

Goddard Institute for Space Studies  
New York City, New York

**Field of Science:**Earth Science

**Advisors:**

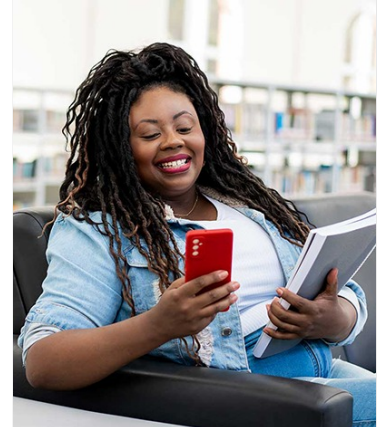
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**Applications with citizens from Designated Countries will not be accepted at this time, unless they are Legal Permanent Residents of the United States.** A complete list of Designated Countries can be found at: <https://www.nasa.gov/oijr/export-control>.

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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