

**Opportunity Title:** Global Carbon Cycle studies using observations, reanalysis and climate model simulations

**Opportunity Reference Code:** 0014-NPP-NOV23-GISS-EarthSci

**Organization** National Aeronautics and Space Administration (NASA)

**Reference Code** 0014-NPP-NOV23-GISS-EarthSci

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

**Description** NASA's global carbon cycle research seeks to study the integrated carbon cycle in the atmosphere, oceans, land, in observational datasets and in models and describe the implications for Earth's climate, productivity, and natural resources. The research goal is to understand and quantify the carbon cycle feedbacks and the uncertainty in the NASA GISS Earth System model and provide information about future changes particularly with respect to the evolution of the marine and terrestrial sinks.

Research proposals are encouraged in the areas of:

- 1) Land-ocean interface
- 2) Land vegetation phenology and climate teleconnections
- 3) Quantification of source-sink circulation patterns, ocean and land carbon uptake
- 4) Utilization of satellite data to evaluate simulated carbon stocks and fluxes

Successful applicants should have experience analyzing observational and model datasets, and background in the following is highly desirable: Earth, Physical, and/or Computing Sciences, Carbon Cycle Science, mathematical modeling, programming in a compiled language like C or FORTRAN95, scripting with python or R.

**Location:**

Goddard Institute for Space Studies  
New York City, New York

**Field of Science:**Earth Science

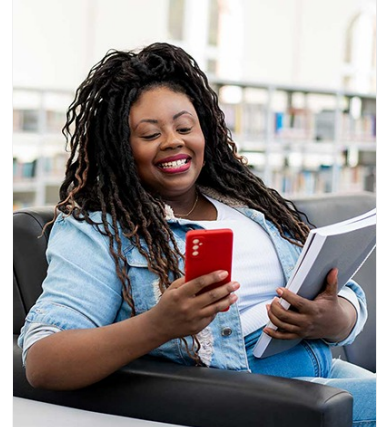
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**Applications with citizens from Designated Countries will not be accepted at this time, unless they are Legal Permanent Residents of the United States.** A complete list of Designated Countries can be found at: <https://www.nasa.gov/oiiir/export-control>.

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.