

Opportunity Title: Coupling the carbon and water cycle via optical and radar remote sensing

Opportunity Reference Code: 0224-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 carbon and water cycle are intricately coupled and together determine ecosystem productivity. This NASA Post Doctoral Program Research Opportunity Description aims to quantify the coupling of carbon and water across varying temporal and spatial scales for the globe. Combining remote sensing datasets from optical and microwave instruments, these observations will be used to quantify decadal scale processes and to better understand canopy-level controls on ecosystem-atmosphere fluxes. This includes a focus on mechanisms driving carbon and water cycle coupling. Furthermore, the project will evaluate environmental controls on ecosystem productivity across the globe and how climate change may affect these controls. The work will help provide insights into ecosystem modeling, their theoretical basis for plant and ecosystem production, and evaluation of model performance.

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/oirr/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



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