

Opportunity Title: Short and Long Term Effects of Aerosol-Cloud Interactions on Climate

Opportunity Reference Code: 0165-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 Aerosol emissions impact Earth's climate by modifying the properties of clouds. This research opportunity seeks to understand the role of cloud condensation nuclei and ice nuclei emissions on the formation of clouds and their effect on climate prediction. Specifically, it seeks to understand the effect of different representations of aerosol activation of cloud formation on short-term and seasonal-to-decadal climate forecast. Other tasks include the implementation of aerosol activation parameterizations into NASA models, the development of metrics of the aerosol indirect effect, and the analysis of field campaign and satellite retrievals to search for signal of aerosol-cloud interactions.

Location:

Goddard Space Flight Center
Greenbelt, Maryland

Field of Science:Earth Science

Advisors:

Donifan Barahona
Donifan.O.Barahona@nasa.gov
301-614-6103

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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