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Opportunity Title: Earth Science: Atmospheric Dynamics and Cloud Remote Sensing
Opportunity Reference Code: 0121-NPP-MAR26-GSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0121-NPP-MAR26-GSFC-EarthSci

How to Apply All applications must be submitted in Zintellect

Please visit the NASA Postdoctoral Program website for application instructions and requirements: How to Apply | NASA Postdoctoral Program (orau.org)

A complete application to the NASA Postdoctoral Program includes:

1. Research proposal
2. Three letters of recommendation
3. Official doctoral transcript documents

Application Deadline 4/2/2026 6:00:59 PM Eastern Time Zone

Description **About the NASA Postdoctoral Program**

The NASA Postdoctoral Program (NPP) offers unique research opportunities to highly-talented scientists to engage in ongoing NASA research projects at a NASA Center, NASA Headquarters, or at a NASA-affiliated research institute. These one- to three-year fellowships are competitive and are designed to advance NASA's missions in space science, Earth science, aeronautics, space operations, exploration systems, and astrobiology.

Description:

This opportunity is closed to applicants who are Senior Fellows (5-years or more past PhD).

Fast dynamical and cloud processes present great challenges to remote sensing from space. Embedded in and interacting with mesoscale and synoptic scale atmospheric flows, these processes play important roles in redistributing energy, momentum, and trace gases. It requires satellite sensors with high spatial and temporal resolutions to adequately capture physical properties of the fast processes. To explore and advance new capability of spaceborne instruments, our research has been focusing on: 1) atmospheric/ionospheric wave dynamics, 2) cloud remote sensing, and 3) atmospheric wind sounding techniques. For wave dynamics research, we developed novel methods using advanced satellite sensors (e.g., MLS, AMSU-A, AIRS, GPS Radio Occultation) to detect and map perturbations of atmospheric temperature and density induced by gravity waves. For cloud remote sensing, new sounding methods and algorithms with mm and submm-wave radiometry are sought. The current research focuses on analysis of A-Train data from Aqua AIRS, Aura MLS, CloudSat and CALIPSO. To develop new wind measurement techniques, we are studying i) passive low mass-power-noise mm and submm-wave receivers for Earth and planetary atmospheres, and ii) multi-angle visible/IR cloud imaging for 3-D tropospheric winds.

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Location:
Goddard Space Flight Center
Greenbelt, Maryland

Field of Science: Earth Science

Advisors:
Dong Wu
Dong.L.Wu@nasa.gov
301-614-5784

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/oiir/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

Questions about this opportunity? Please email npp@orau.org

Point of Contact Mikeala

Eligibility Requirements

- **Degree:** Doctoral Degree.