

Opportunity Title: Instrument Design & Engineering for the Airborne Meteorological Measurement System

Opportunity Reference Code: 0148-NPP-NOV26-ARC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

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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 11/1/2026 6:00:59 PM Eastern Time Zone

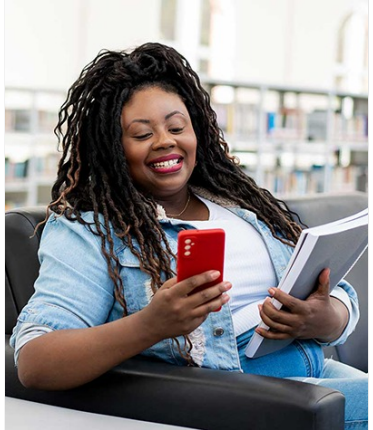
Description About the [NASA Postdoctoral Program](#)

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:

The Meteorological Measurement System (MMS) is a state-of-the-art airborne instrument for measuring accurate, high resolution in situ state parameters such as pressure, temperature, and three-dimensional wind vectors. These key meteorological measurements enable our understanding of atmospheric dynamics, chemistry and microphysical processes. MMS measurements are critical for investigating a variety of atmospheric mesoscale (e.g., gravity waves) and microscale (e.g., turbulence) phenomena. The MMS group in the Atmospheric Sciences Branch of the Earth Science Division at NASA Ames Research Center (<https://airbornescience.nasa.gov/mms>) has a long history of providing research-quality, in situ meteorological measurements on multiple platforms as part of over 30 airborne missions since the 1980s.

We are looking for a postdoctoral assistant with research interests in meteorological instrumentation to join the Atmospheric Science Branch. This will involve working primarily with hardware, with possible opportunities to develop software (C, Python, Fortran) to modernize the legacy MMS instrument. This position will afford opportunities to participate in NASA-sponsored flight campaigns, and contribute to scientific data analysis. Development of secondary projects which foster collaborations



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with other researchers both at NASA Ames and externally is also encouraged.

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/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

Qualifications PhD in electrical engineering or a closely related field.

Previous laboratory and/or field experience.

Experience developing and working with analytical instrumentation, preferably for meteorological or atmospheric measurements.

Ability to work as a member of a team on various projects.

Good written and verbal communication skills.

Willingness to travel for field campaigns.

Point of Contact [Mikeala](#)

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