

Opportunity Title: Applied Research on Speciated Particulate Matter Air Pollution

Opportunity Reference Code: 0306-NPP-NOV26-JPL-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0306-NPP-NOV26-JPL-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

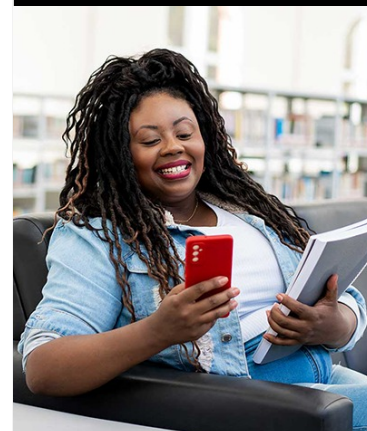
Application Deadline 11/1/2026 6:00:59 PM Eastern Time Zone

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:

This research opportunity involves using remotely sensed multiangle, multispectral radiometric and/or polarimetric imagery and derived aerosol products, ground-based particulate matter (PM) sensor measurements, and atmospheric model information for mapping near-surface chemically speciated PM concentrations and their impact on air quality. Sources of remote sensing data include the Multi-angle Imaging SpectroRadiometer (MISR) instrument, currently flying on NASA's Terra satellite, the Airborne Multiangle SpectroPolarimetric Imagers (AirMSPI, AirMSPI-2), and the upcoming Multi-Angle Imager for Aerosols (MAIA) satellite mission, planned for launch in 2026. In-situ PM monitors in support of MAIA include instruments currently acquiring total and speciated PM measurements in several major cities around the world as well as a suite of research sensors operating on a rooftop at JPL. Postdoctoral fellows will participate in the application of these current and future data to scientific problems, including but not limited to characterization of levels and trends in total and speciated particulate air pollution exposure; development of novel satellite and/or surface-based approaches for determining ambient speciated PM concentrations; PM source apportionment; assessment of public or ecosystem health or other environmental impacts; or identification of disparities in pollution exposure across communities. For additional



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information, see:

<https://misr.jpl.nasa.gov>

<https://airbornescience.jpl.nasa.gov/instruments/airmspi/>

<https://maia.jpl.nasa.gov>

Field of Science: Earth Science

Advisors:

David J. Diner

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(818) 354-6319

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/oii/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 Educational requirement: Doctoral degree

Desirable qualifications: Background in air pollution research, aerosol/particulate matter characterization, environmental science, environmental engineering, or related topics

Desirable qualities: good analytical and problem-solving skills

Point of Contact [Mikeala](#)

Eligibility • **Degree:** Doctoral Degree.

Requirements