

Opportunity Title: Astrophysics: Cosmic Microwave Background and Diffuse Galactic Emission

Opportunity Reference Code: 0018-NPP-NOV26-GSFC-Astrophys

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 Observational Cosmology Laboratory at Goddard Space Flight Center studies the cosmic microwave background (CMB) and diffuse Galactic and extragalactic emission at decimeter through far-infrared wavelengths for cosmology and astrophysics. Active work includes the ground-based CMB experiment CLASS, development of suborbital balloon payloads (ARCADE 3, EXCLAIM), the PRIMA far-infrared space mission, mission concept development for future CMB space missions (CMB Probe, LiteBIRD, Phoenix, PIXIE), and analysis of archival data to model Galactic emission from synchrotron, dust, and anomalous microwave emission.

Scientific goals include:

* Measurements of CMB polarization to search for evidence of an inflationary epoch in the early universe, and constrain cosmology

* Measurements of distortions from the CMB blackbody spectrum to determine the energy budget of the universe and search for new physics beyond the Standard Model

* Measurements of far-IR emission lines to determine the star formation history of the universe



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* Measurements of polarized emission from interstellar dust to determine its composition and emission mechanisms

* Models of diffuse synchrotron emission to determine the origin of the observed radio synchrotron background

In support of these goals, research opportunities exist for development of flight hardware, analysis of archival data, and the analysis and design of future missions at decimeter to far-IR wavelengths. The group leads development of superconducting detectors and their readout electronics, optics and related technologies, and novel instrument architectures to support these science goals.

Location:

Goddard Space Flight Center

Greenbelt, Maryland

Field of Science: Astrophysics

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;

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- 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.