zintellect
climb higher

Opportunity Title: Astrophysics: Far-Infrared, Submillimeter, and Millimeter-wave Instruments for Astronomy
Opportunity Reference Code: 0097-NPP-NOV26-GSFC-Astrophys

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0097-NPP-NOV26-GSFC-Astrophys

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 work focuses on ultrasensitive detector design, fabrication, characterization, and integration into instruments for ground-based, balloon-borne, and space-based astrophysical investigations. Active areas of research include development of superconducting detectors, including transition edge sensors (TESs) and kinetic inductance detectors (KIDs), integrated into large-format arrays and silicon on-chip spectrometers. The group is also heavily involved in developing supporting technologies including detector readout electronics, optical elements, and photonics. Current application areas include observations of the cosmic microwave background (CMB) and diffuse Galactic emission, line intensity mapping (LIM), studies of protoplanetary disks, and galaxy evolution science.

A key focus of our group is deploying instruments for suborbital and orbital observations. Current projects include the ground-based CMB experiment CLASS (Cosmology Large Angular Scale Surveyor); the balloon-borne projects EXCLAIM (EXperiment for Cryogenic Large-Aperture Intensity Mapping, a submillimeter intensity mapping experiment) and POEMM (Planetary Origins and Evolution Multispectral Monochromator, studying planet formation and evolution); and the PRIMA (Probe Far-Infrared Mission for Astrophysics) space mission. Finally, technology development to enable future space missions, including the Habitable Worlds Observatory, a CMB Probe, and a future far-infrared flagship mission, is being intensively pursued and offers unique opportunities for postdoctoral research.

Opportunity Title: Astrophysics: Far-Infrared, Submillimeter, and Millimeter-wave Instruments for Astronomy
Opportunity Reference Code: 0097-NPP-NOV26-GSFC-Astrophys

Location:
Goddard Space Flight Center
Greenbelt, Maryland

Field of Science: Astrophysics

Advisors:
Thomas M Essinger-Hileman
thomas.m.essinger-hileman@nasa.gov
301.286.3693

Alan J. Kogut
Alan.J.Kogut@nasa.gov
301-286-0853

Erin C. Smith
erin.c.smith@nasa.gov
301-286-7793

Eric Switzer
Eric.R.Switzer@nasa.gov
301-614-0921

Karwan Rostem
karwan.rostem@nasa.gov
301.286.0308

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

Opportunity Title: Astrophysics: Far-Infrared, Submillimeter, and Millimeter-wave Instruments for Astronomy
Opportunity Reference Code: 0097-NPP-NOV26-GSFC-Astrophys

Point of Contact Mikeala

Eligibility Requirements

- **Degree:** Doctoral Degree.