

Opportunity Title: Multiwavelength stellar astrophysics

Opportunity Reference Code: 0209-NPP-MAR26-GSFC-Astrophys

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0209-NPP-MAR26-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 \(oua.org\)](#).

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:

Past, current, and future space-based observatories enable access to spectroscopic diagnostics in the IR, UV, X-ray, as well as precision photometry across the electromagnetic spectrum. Together with traditional ground-based observatories, these allow holistic multiwavelength studies of a wide variety of stellar phenomena.

Low-mass stars, particularly red dwarfs ≤ 0.6 solar masses, exhibit a broad range of multiwavelength emission. Much of this emission is driven by magnetic activity. Magnetic activity results in star spots, flares, and other related phenomena. Photometric variability monitoring spanning the UV to IR can be measured to understand spot coverage and spot evolution and simultaneous observations of flares from the X-ray to radio can lead to deep insight into flare emission mechanisms, flare energy equipartition, and the effects of flares on close in exoplanets.

Winds of massive stars are of crucial importance in determining their evolution, their end states in supernovae and compact remnants, and in feeding back energy, momentum, and enriched material into the surrounding ISM, triggering future waves of star formation. Studies of spectral line shapes in the UV and X-ray place strong constraints on fundamental wind properties and diagnose instability-induced shocks. Photometric variability is used to understand large- and small-scale wind



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structure. Winds of magnetic massive stars show evidence for large-scale structure and strong shocks that are studied with phase-resolved UV and X-ray spectroscopy.

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;
- U.S. Lawful Permanent Residents (LPR);
- Foreign Nationals eligible for an Exchange Visitor J-1 visa status; and,

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- 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.