Opportunity Title: Astrophysics: Stellar Activity
Opportunity Reference Code: 0234-NPP-MAR26-GSFC-Astrophys

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0234-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 (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 3/1/2026 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:

Partially and fully convective stars (< 1.8 solar masses) produce magnetic fields that inject energy into the photosphere, chromosphere, and corona producing a broad array of observable phenomena called "stellar activity". Manifestations of stellar activity, for example starspots, flares, and quiescent chromospheric emission, can be observed with spectroscopy or photometry across the entire electromagnetic spectrum. Recent studies have prioritized the lowest-mass stars (M dwarfs) for their high levels of stellar activity and their importance as exoplanet host stars. Many NASA observatories including Chandra, NICER, Swift, Hubble, and TESS have produced rich multiwavelength data sets of stellar time-variability and X-ray and ultraviolet emission that can inform our understanding of stars and provide valuable inputs into exoplanet atmosphere models.

We seek a postdoctoral candidate to study stellar activity using time-series and/or other data. We are particularly interested in multi-wavelength approaches to understanding activity. Potential topics of study include: stellar rotation and flares, relationships between different activity indicators, the time evolution of stellar activity, and the influence of activity on exoplanets. NASA's Goddard Space Flight Center hosts several time-domain astrophysics missions currently in operation (TESS, Swift, NICER, etc.) and others in development (e.g. Pandora and Dorado). Proposed

NPP NASA Postdoctoral Program
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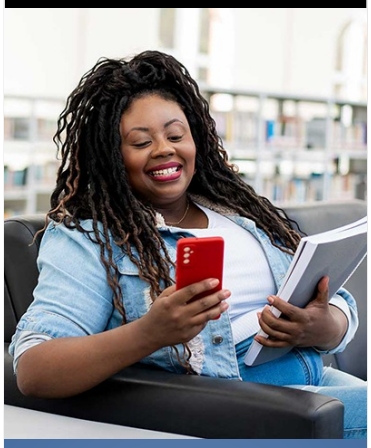

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projects that capitalize on more than one resource are encouraged.

Qualifications for this opportunity include a Ph.D. in astronomy, physics, or a related discipline. Prior experience with time-domain astrophysics analyses, multi-wavelength studies, and other relevant skills are desirable.

Interested applicants are encouraged to contact the advisor(s).

Location:
Goddard Space Flight Center
Greenbelt, Maryland

Field of Science: Astrophysics

Advisors:
Allison Youngblood
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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);

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- 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.