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Opportunity Title: Spectroscopic diagnostics of solar eruptive events
Opportunity Reference Code: 0303-NPP-MAR26-GSFC-Heliophys

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0303-NPP-MAR26-GSFC-Heliophys

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:

Solar flares are often associated with coronal mass ejections, and the combined event is referred to as a solar eruptive event (SEE). Ultraviolet (UV), extreme-ultraviolet (EUV) and soft X-ray spectra provide a wide range of plasma diagnostics with which to probe the heated, thermal plasma during the flare, and measure the speed of the erupting plasma. These spectroscopic diagnostics provide critical constraints on physical models of SEEs.

This opportunity has a particular focus on data from the Hinode EUV Imaging Spectrometer: identifying key datasets from the 18-year mission; performing plasma diagnostics; and confronting theoretical plasma models of SEEs. In addition to density, temperature, element abundance and velocity diagnostics, recent work has identified a unique diagnostic for the coronal magnetic field.

Field of Science: Heliophysics Science

Advisors:

Peter Young
peter.r.young@nasa.gov

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301-286-4958

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

Qualifications The applicant should have a PhD in Solar Physics or a related discipline, or be within one year of completing a PhD. Expertise in ultraviolet spectroscopy would be favorable for the candidate.

Point of Contact Mikeala

Eligibility Requirements

- **Degree:** Doctoral Degree.