

Opportunity Title: Multi-scale structure and dynamics of solar atmosphere

Opportunity Reference Code: 0123-NPP-MAR26-ARC-HeliophysSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0123-NPP-MAR26-ARC-HeliophysSci

How to Apply All applications must be submitted in [Zintellect](#)

Application Deadline 4/2/2026 6:00:59 PM Eastern Time Zone

Description Description:

Current technological advances allow us to observe the Sun with unprecedented resolution through many layers of the atmosphere that reveal complex multi-scale interactions of magnetized plasma from subsurface layers to the corona. Understanding the dynamics and evolution of these interactions requires careful analysis of available observations from NASA space missions (e.g., SDO, IRIS, Hinode, Parker Solar Probe), ground instruments (e.g., Dunn Solar Telescope, DKIST, Swedish Solar Telescope), and numerical models. This opportunity includes an analysis of self-organization processes in the solar atmosphere, including studies of individual events (e.g., helical motions, eruptive activity), statistical studies, and coupling with solar activity on larger scales. Because of the variability of solar activity, increasing magnetic flux from the interior will require an investigation of the response of the solar atmosphere in terms of thermodynamical and turbulent properties and structuring.

Field of Science: Heliophysics Science

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/oirr/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



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Qualifications Doctoral degree in relevant field to astrophysics instrumentation required prior to start of NPP fellowship.

Point of Contact [Mikeala](#)

Eligibility • **Degree:** Doctoral Degree.
Requirements