

Opportunity Title: Heliophysics: Solar Physics Research

Opportunity Reference Code: 0003-NPP-NOV23-MSFC-HelioSci

Organization National Aeronautics and Space Administration (NASA)

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Application Deadline 11/1/2023 6:00:59 PM Eastern Time Zone

Description The NASA Marshall Space Flight Center has a research opportunity at the postdoctoral level within the heliophysics program (<https://science.msfc.nasa.gov/heliophysics-and-planetary-science-home>). Applications are invited for work with observational data from space-borne missions and ground-based telescopes, or for instrument development for observations of solar UV and X-ray emissions. Primary advisor is Dr. Sabrina Savage. Other advisors include Drs. David McKenzie, Alphonse Sterling, and Amy Winebarger of NASA/MSFC, and Dr. Ron Moore of the University of Alabama-Huntsville. A background in solar physics is an advantage, but is not required.

Current Marshall solar interests include:

Theoretical and Data Analysis Research Areas: Middle coronal imaging and analysis; X-ray spectroscopy; filament eruptions, coronal mass ejections (CMEs), and solar flares; coronal heating; small-scale chromospheric and transition region structures, such as spicules, macrospicules and coronal jets; signatures and tracers of magnetic reconnection in the corona; and plasma flows in solar flares. Marshall team members are actively involved in analysis of data from the Solar Dynamics Observatory (SDO), Hinode, and Interface Region Imaging Spectrograph (IRIS) space missions, as well as data from rocket flights, ground-based observatories, and numerous earlier space missions. Proposed use of Hinode solar physics satellite data is an advantage, but is not required.

Instrumental Research Areas: Marshall has active programs to develop sub-orbital and space-based remote sensing systems, including telescopes for UV and X-rays, and measurement of vector magnetic fields.

Postdoctoral research opportunities are frequently available to participate in design, development, and testing of optical systems and cameras, as well as scientific analysis of the acquired data.

Location:

Marshall Space Flight Center
Huntsville, Alabama

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/oiiir/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

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