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Opportunity Title: Coronal Mass Ejection (CME) propagation, magnetic connectivity, and Solar Energetic Particles (SEPs)
Opportunity Reference Code: 0186-NPP-MAR26-GSFC-HelioSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0186-NPP-MAR26-GSFC-HelioSci

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:

This opportunity involves different aspects of modeling coronal mass ejection (CME) propagation, magnetic connectivity of observers to the Sun and CME, and solar energetic particles (SEPs) in the inner heliosphere. CME propagation modeling studies include quantifying the effect of the background solar wind through which the CME propagates, uncertainties in CME kinematic parameters, uncertainties in input magnetograms, and validating CME propagation to various locations. Comparing different models of magnetic connectivity will help us understand the accuracy in the background solar wind and particle acceleration models. The CCMC is working on system to run SEP models driven by a variety of heliospheric models. This research would also involve running these coupled models (as a chain), validating and calibrating results, and improving coupling algorithms when appropriate.

Location:
Goddard Space Flight Center
Greenbelt, Maryland

Field of Science: Heliophysics Science

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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,
- 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.