

Opportunity Title: Heliospheric Flux Rope

Opportunity Reference Code: 0261-NPP-NOV26-GSFC-HelioSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0261-NPP-NOV26-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 11/1/2026 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:

Heliospheric flux ropes (FRs) are dynamically evolving structures in the heliosphere. They evolve through expansion, rotation, deflection, and/or erosion due to their interactions with the prevailing local environments. This project aims to study the spatiotemporal variations of FRs, inspect the dependence of FR local deformation on the ambient environments, and quantify the impact of FR evolution on their structures and intrinsic properties. The applicant is expected to use physics-based models to define the in-situ observed FR structure (preferentially probed at multiple locations) and to quantify their evolution and erosion. In addition, to facilitate the FR research and space weather forecasting, the project aims to improve existing machine learning architecture to identify FRs and their orientations automatically using solar wind data.

Field of Science: Heliophysics Science

Advisors:

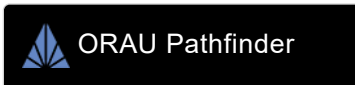
Lan Jian

lan.jian@nasa.gov

(301) 286-3309

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>.



Whether you are just starting your career or already at a senior level, ORAU offers internships, fellowships, research opportunities, and contract positions that can provide you with invaluable experience. Download the ORAU Pathfinder mobile app and find the right opportunity to propel you along your career path!

Visit ORAU Pathfinder 



Opportunity Title: Heliospheric Flux Rope

Opportunity Reference Code: 0261-NPP-NOV26-GSFC-HelioSci

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.