

Opportunity Title: Applications of NISAR single and multi-frequency data to issues of societal importance

Opportunity Reference Code: 0265-NPP-MAR26-JPL-EarthSci

Organization National Aeronautics and Space Administration (NASA)

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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

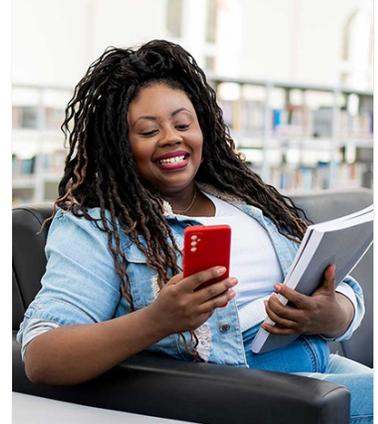
Application Deadline 3/1/2026 6:00:59 PM Eastern Time Zone

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:

Research opportunities exist within the applied Earth sciences and applications of Earth remote sensing to employ data from the upcoming NISAR mission (<https://nisar.jpl.nasa.gov/>) to develop and demonstrate methods and products that support social and resiliency to climate change (natural disasters). Recent years have seen an unprecedented expansion in the use of synthetic aperture radar (SAR) for a broad range of basic and applied science topics, in large part due to free and open access to data from the European Space Agency's Sentinel-1 missions. This will only increase in the next few years as the NASA/ISRO NISAR mission (<https://nisar.jpl.nasa.gov/>) provides L-band global land observations augmented by S-band acquisitions over India's areas of interest. It is well-established that much of the SAR processing methods and derived products that have been developed for science are of direct use for operational agencies' monitoring needs, e.g., InSAR measurements of volcanic dome expansion, coseismic fault slip, and subsidence in urban settings. In recognition of the potential value of SAR-derived information to operational agencies and emergency responders, the NISAR Science Team held community-focused workshops that identified priorities, some of which will be met by the OPERA project (<https://www.jpl.nasa.gov/go/opera>). However, there remain many potential uses of SAR that have not been developed to an operational level or for which the value of SAR has not been recognized or exploited, including the use of multi-frequency SAR and data fusion with multispectral imagery and lidar surveys. This is true, for example, for observations of high societal value related to coastal land resiliency, ecosystem response and adaptation, and disaster management that can support accurate forecast modeling for climate change scenarios. The NASA Postdoctoral Fellowship offers a research opportunity in the investigation and



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advancement in the applications of SAR, particularly NISAR L-band and S-band data, alone or in combination with data from other sources. Projects can use other SAR data, including but not limited to NISAR-simulated data sets from the UAVSAR sensor (<https://uavsar.jpl.nasa.gov/cgi-bin/data.pl>), prior to release of NISAR science data. Fellows will present their work at meetings and through peer-reviewed publications so strong English-language skills are needed.

Field of Science:

- Earth Science

Advisors:

Cathleen Jones

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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/oior/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.