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Opportunity Title: X-ray Astrophysics with XRISM
Opportunity Reference Code: 0225-NPP-MAR26-GSFC-Astrophys

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0225-NPP-MAR26-GSFC-Astrophys

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 4/2/2026 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:

The X-ray Imaging and Spectroscopy Mission (XRISM) is a JAXA/NASA collaborative mission with ESA participation, expected to launch in the fall of 2022. XRISM is capable of high-resolution, non-dispersive X-ray spectroscopy over a 3‘ square field of view, as well as imaging over a much larger 40‘ square field of view. Four categories of science objectives have been defined for the mission: (1) Structure formation of the Universe and evolution of clusters of galaxies; (2) Circulation history of baryonic matter in the Universe; (3) Transport and circulation of energy in the Universe; (4) New science with unprecedented high resolution X-ray spectroscopy. XRISM will observe virtually all classes of celestial objects, including clusters of galaxies, active galactic nuclei, X-ray binaries, supernova remnants, hot stars, and many others. The successful applicant will carry out a research program in any area related to the science of XRISM. This can include, but is not limited to: theoretical studies of celestial sources observable with XRISM, simulations of potential XRISM observations, relevant laboratory astrophysics, development of spectral models or atomic codes, or exploring synergies between XRISM and other contemporaneous observatories.

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Location:
Goddard Space Flight Center
Greenbelt, Maryland

Field of Science: Astrophysics

Advisors:
Brian J Williams
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(301) 614-5085

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

Eligibility Requirements

- **Degree:** Doctoral Degree.