

Opportunity Title: Astrophysics: High-Energy Astrophysics Science Archive Research

Opportunity Reference Code: 0033-NPP-NOV23-GSFC-Astrophys

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0033-NPP-NOV23-GSFC-Astrophys

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

Description The High-Energy Astrophysics Science Archive Research Center (HEASARC) is the primary archive for NASA missions dealing with extremely energetic phenomena, from black holes to the Big Bang. Having recently merged with the Legacy Archive for Microwave Background Data Analysis (LAMBDA), it includes data obtained by NASA's high-energy astronomy missions from the extreme ultraviolet through gamma-ray bands, along with missions that study the relic cosmic microwave background (CMB). The HEASARC provides a multimission archive for the Chandra, Swift, Fermi, NuSTAR and NICER missions, which coexist with archival data from past missions such as CGRO, ROSAT, RXTE, Einstein, HEAO-I, COBE, and OSO-8, and data from past and present non-US-led missions including EXOSAT, Ginga, ASCA, Beppo-SAX, INTEGRAL, XMM-Newton, Suzaku, and Hitomi. All of the key x-ray, gamma-ray and CMB archival data sets are available, providing an enormous potential for astrophysics research. The HEASARC thus provides a productive environment to make archival studies of all kinds including historical studies, theoretical modeling, and surveys. An opportunity also exists to propose new observations with the current missions and to combine these data with archival data. The research possibilities cover all aspects of high-energy astrophysics, including x-ray and gamma-ray emission from x-ray binaries, stellar coronae, supernova remnants, cataclysmic variables, clusters of galaxies, active galactic nuclei, and other extragalactic objects, and the study of the cosmic microwave background.

Location:

Goddard Space Flight Center
Greenbelt, Maryland

Field of Science:Astrophysics

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



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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.