

**Opportunity Title:** Astrophysics: Extragalactic Astronomy -- Active Galactic Nuclei, Clusters of Galaxies, and the Cosmic Web

**Opportunity Reference Code:** 0025-NPP-NOV23-GSFC-Astrophys

**Organization** National Aeronautics and Space Administration (NASA)

**Reference Code** 0025-NPP-NOV23-GSFC-Astrophys

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

**Description** This research opportunity includes extragalactic astronomical research that focuses on observational studies of galaxy clusters and/or active galactic nuclei (AGN). Programs may use NASA observatories such as the Hubble Space Telescope (HST), Chandra, XMM, Spitzer, GALEX, NASA ground-based telescopes such as Keck or IRTF, ground-based optical/infrared observatories (KPNO, CTIO, Gemini, CFHT), or radio observatories such as the Very Large Array and ALMA. AGN programs are designed to illuminate the activation and fueling of quasars, Seyfert galaxies, and powerful radio galaxies, and the feedback upon their host galaxies and larger surroundings. Also relevant are absorption line studies of "cosmic web" material intervening between background quasars and UV spectrographs onboard FUSE and HST. Ongoing spectroscopic and imaging studies of galaxy clusters address the evolution of clusters and the effect of the cluster environment on the evolution of the constituent galaxies.

**Location:**

Goddard Space Flight Center  
Greenbelt, Maryland

**Field of Science:** Astrophysics

**Advisors:**

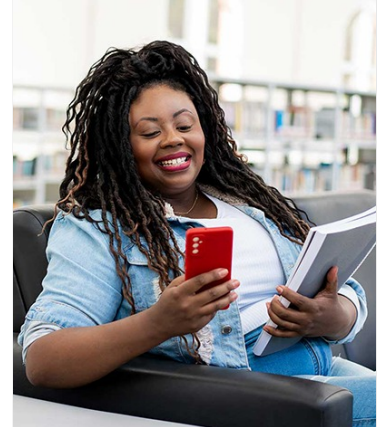
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**Applications with citizens from Designated Countries will not be accepted at this time, unless they are Legal Permanent Residents of the United States.** A complete list of Designated Countries can be found at: <https://www.nasa.gov/oiiir/export-control>.

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.