

Opportunity Title: Astrophysics: Theoretical Studies in Extragalactic Astronomy and Cosmology

Opportunity Reference Code: 0083-NPP-JUL24-GSFC-Astrophys

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0083-NPP-JUL24-GSFC-Astrophys

Application Deadline 7/1/2024 6:00:59 PM Eastern Time Zone

Description Our theoretical studies cover a broad range of solar system, galactic, extragalactic, and cosmological subjects, using or modeling satellite and ground-based data.

Areas of active research include: (1) studying the nature and evolution of the Extragalactic Background Light (EBL), and its effect on the TeV gamma-ray opacity of the universe; (2) modeling the evolution of the stellar population, spectrum, metallicity, and dust content in the Milky Way, in local, and in high-redshift galaxies; (3) determining the formation, destruction, evolution, and nature of dust in various astrophysical sources and environments such as: supernovae and their remnants, AGB stars, molecular clouds, dusty plasmas, and the diffuse interstellar medium; and (4) deriving the morphology and spectrum if the interplanetary dust cloud for cosmological studies.

Location:

Goddard Space Flight Center
Greenbelt, Maryland

Field of Science:Astrophysics

Advisors:

Eric Switzer
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301-614-0921

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/oijr/export-control>.

Eligibility is currently open to:



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- 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.