

Opportunity Title: Astrophysics: Theoretical X-Ray and Ultraviolet Astronomy

Opportunity Reference Code: 0084-NPP-NOV23-GSFC-Astrophys

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0084-NPP-NOV23-GSFC-Astrophys

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

Description Theoretical research concerns the physics of accreting compact objects such as cataclysmic variables, x-ray binaries, and active galactic nuclei; observational tests of such theories are also performed.

> The problems studied include (1) radiation transfer in optically thin gas such as quasar emission line clouds and in optically thick gas such as x-ray illuminated stellar atmospheres and accretion disks; (2) accumulation of a high-quality atomic physics data base for use in spectral modeling; (3) gas dynamics such as accretion flows in x-ray binaries and stellar winds; and (4) construction of synthetic x-ray, ultraviolet, and optical spectra of accreting objects and detailed comparison with observational data.

> Applicants are encouraged to participate in any of these areas or to initiate related research.

Location:

Goddard Space Flight Center Greenbelt, Maryland

Field of Science: Astrophysics

Advisors:

Timothy Raymond Kallman Timothy.R.Kallman@nasa.gov 301-286-3680

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

Eligibility Requirements • Degree: Doctoral Degree.







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