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Opportunity Title: Looking at Infrared Background Radiation with Euclid - LIBRAE
Opportunity Reference Code: 0236-NPP-MAR26-GSFC-Astrophys

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0236-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:

LIBRAE is one of 3 US-based science projects approved by NASA to run on the successfully operating ESA's Dark Energy Euclid mission, with a major contribution from NASA. LIBRAE will measure source-subtracted cosmic infrared background (CIB) structure (fluctuations) and determine the epochs of the populations producing these fluctuations. In conjunction with a number of other X-ray missions and microwave facilities, it will probe the contribution of early black holes, and the condition of intergalactic gas at these epochs. See description and plans at https://www.euclid.caltech.edu/page/KashlinskyTeam. We are seeking motivated junior scientists to participate in the development of this program and obtaining/analyzing the new measurements. The successful candidate should be qualified and interested to participate in one, or all, of the following: 1) preparation of accurate maps from Euclid data suitable for probing the CIB signal, 2) refining understanding of the contributions from known and new populations to the CIB signal, 3) further development of theoretical contributions from early populations, such as Population 3, direct-collapse black holes, or primordial black holes making up dark matter.

Location:
Goddard Space Flight Center
Greenbelt, Maryland

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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/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

Point of Contact Mikeala

Eligibility Requirements

- **Degree:** Doctoral Degree.