Opportunity Title: Infrared Exoplanet Spectroscopy
Opportunity Reference Code: 0014-NPP-MAR23-JPL-Astrophys

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0014-NPP-MAR23-JPL-Astrophys

Application Deadline 3/1/2023 6:00:00 PM Eastern Time Zone

Description The successful applicant is expected to participate in an ongoing, high dynamic range, exoplanet spectroscopy program that has time awarded on both ground and space telescopes. The objectives of this program are (1) to determine the composition and fundamental physical parameters of exoplanets and to (2) develop new techniques and calibration methods to enable new NASA mission/instrument concepts for the characterization of Earth-like planets. The current focus of this program is observing transiting exoplanets and obtaining spectra of both the dayside and nightside emission. In addition to the scientific objectives, the position includes assisting in the development of new calibration techniques that increase the achievable dynamic range of existing and planned instruments and thus uniquely enable new discoveries. Applicants should have a strong background in observational techniques and instrumentation, an interest in exoplanet science, and a commitment to publishing results quickly. For additional information, please contact Dr. Mark Swain at the Jet Propulsion Laboratory.

Swain, M.R., et al., 2003, “Interferometer Observations of the Subparsec-scale Infrared Emission in the Nucleus of NGC 4151”, Ap. J. Ltrs., 596, L153–L156.

Location:
Jet Propulsion Laboratory
Pasadena, California

Field of Science: Astrophysics

Advisors:
Mark Swain
Mark.R.Swain@jpl.nasa.gov
818-455-2396

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

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pending status

Eligibility Requirements

- **Degree:** Doctoral Degree.