

Opportunity Title: JWST Spectra of Planets and Brown Dwarfs
Opportunity Reference Code: 0132-NPP-NOV23-JPL-Astrophys

Organization National Aeronautics and Space Administration (NASA)

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

Description An opportunity exists to use high contrast imaging to search for new exoplanets and to study known exoplanets as part of Guaranteed Time Observation (GTO) and an approved General Observer (GO) program with the James Webb Space Telescope (JWST). The goals of the program are to obtain 3-15 μm photometry of known exoplanets and to use JWST's extraordinary sensitivity at wavelengths beyond 2.5 μm and outside of $\sim 1''$ to search for lower mass planets than is possible with ground-based telescopes. Targets of this program include HR 8799, Vega, Fomalhaut, Epsilon Eri, HD 90856 and alpha Centauri.

The successful applicant will work with data from a variety of JWST instruments (NIRCam, NIRSpec and MIRI). Expertise with coronagraphic image post processing of coronagraphic data, state-of-the-art spectral models for Jovian mass objects, and/or spectral retrieval methods are important requirements for the position.

Location:

Jet Propulsion Laboratory
Pasadena, California

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

Eligibility Requirements • **Degree:** Doctoral Degree.



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