

Opportunity Title: Observations and data analysis of transiting planets with the James Webb Space Telescope

Opportunity Reference Code: 0058-NPP-MAR23-ARC-Astrophys

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0058-NPP-MAR23-ARC-Astrophys

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

Description Planets that transit their host stars are amenable to characterization of their atmospheres via transmission or emission spectroscopy. Observations with the James Webb Space Telescope (JWST) will determine the temperatures, compositions, chemical abundances, and cloud properties of exoplanets with much better precision than ones characterized to date with the Hubble and Spitzer Space Telescopes. We are seeking a researcher to analyze JWST guaranteed time observations of the infrared spectra of several warm transiting exoplanets that mostly have masses between Neptune and Jupiter. Experience in pipeline processing, analysis of high precision time-series exoplanet data, or modeling exoplanet atmospheres are desired. The successful candidate will be able to produce results quickly and efficiently and will be able to work effectively in a modest-sized team that is distributed in the US and Europe. Independent research will be encouraged in addition to working as part of a well-organized team of scientific experts. Interested applicants should contact the advisor at least a month prior to the proposal deadline to discuss and outline a research proposal.

Location:

Ames Research Center
Moffet Field, California

Field of Science: Astrophysics

Advisors:

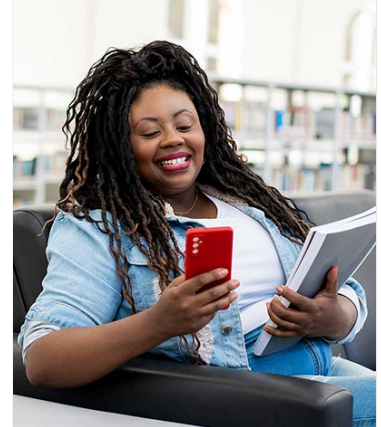
Thomas Peter Greene
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Applications with citizens from Designated Countries will not be accepted at this time, unless they are Legal Permanent Residents of the United States. A complete list of Designated Countries can be found at: <https://www.nasa.gov/oiiir/export-control>.


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 • **Degree:** Doctoral Degree.



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Requirements