

**Opportunity Title:** Science with Next Generation, Large Radio Arrays

**Opportunity Reference Code:** 0083-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** The Jet Propulsion Laboratory is seeking postdoctoral applications from those with an interest in all aspects of science that can be obtained from observations with existing and next-generation radio astronomical arrays.

JPL personnel are engaged in a broad science program related to radio astronomy arrays, including searching for radio signatures of extrasolar planets, testing aspects of energetic particle acceleration and transport, observations of fast radio bursts (FRBs), 21-cm cosmology, and using pulsars for testing fundamental physics. Work is being conducted, either individually or in collaborations, on a variety of telescopes, including the Jansky Very Large Array (JVLA) and Very Long Baseline Array (VLBA), the Long Wavelength Array at Caltech's Owens Valley Radio Observatory (OVRO-LWA), the Low Frequency Array (LOFAR), and other pathfinders and precursors for the Square Kilometre Array. In addition, there is participation in future radio astronomical arrays, notably including the Sun Radio Interferometer Space Experiment (SunRISE), the next-generation Very Large Array (ngVLA), and the Deep Synoptic Array (DSA).

The successful candidate will be expected to identify and carry out an innovative research program in one or more of these science areas or that could stimulate new research areas. Of most interest are science investigations that are complementary to, leverage, or motivate NASA missions, whether they be past, present, planned, or conceptual, notably including future space-based radio astronomical arrays.

**Location:**

Jet Propulsion Laboratory  
Pasadena, California

**Field of Science:** Astrophysics

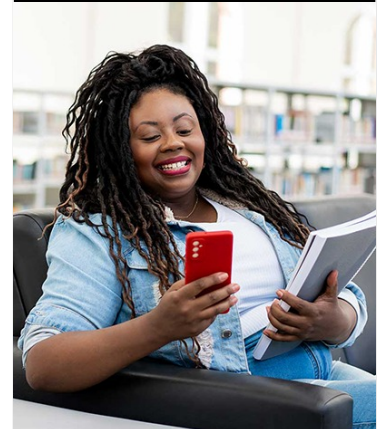
**Advisors:**

Joseph Lazio  
Joseph.Lazio@jpl.nasa.gov  
(818) 354-4198

**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;



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- 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.