

**Opportunity Title:** Sources and Detectors at Submillimeter Wavelengths

**Opportunity Reference Code:** 0069-NPP-NOV23-JPL-TechDev

**Organization** National Aeronautics and Space Administration (NASA)

**Reference Code** 0069-NPP-NOV23-JPL-TechDev

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

**Description** ??We develop terahertz instruments working in the 0.1 to 5 THz frequency band for astrophysics, planetary science, and Earth science applications. We provide end-to-end solutions: from device design and fabrication to active and passive circuits, components, subsystems assembly, and instrument integration and test.

We design, fabricate, and test frequency multiplied sources, highly sensitive room temperature and cryogenically cooled detectors, various passive and active components, and antennas at submillimeter-wave and terahertz frequencies. We are looking for highly motivated candidates with experience in the design, assembly, and test of terahertz devices and components. Experience with simulations tools such as HFSS, CST, ADS, and others are needed. Hands on experience in the lab with measurement equipment such as Vector Network Analyzer (VNA), power meters, antenna measurement setup, and others are must. Clean room experience is also desirable.

**Location:**

Jet Propulsion Laboratory  
Pasadena, California

**Field of Science:** Technology Development

**Advisors:**

Goutam Chattopadhyay  
Goutam.Chattopadhyay@jpl.nasa.gov  
818-393-7779

**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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