

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@jpl.nasa.gov 818-393-7779

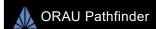
Applications with citizens from Designated Countries will not be accepted at this time, unless they are Legal Permanent Residents of the United States. A complete list of Designated Countries can be found at: https://www.nasa.gov/oiir/export-control.

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.







Whether you are just starting your career or already at a senior level, ORAU offers internships, fellowships, research opportunities, and contract positions that can provide you with invaluable experience. Download the ORAU Pathfinder mobile app and find the right opportunity to propel you along your career path!

Visit ORAU Pathfinder 🗹



Generated: 7/3/2024 4:27:54 AM