

Opportunity Title: Development of MKID Detectors and Readouts Opportunity Reference Code: 0073-NPP-NOV23-JPL-TechDev

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

Reference Code 0073-NPP-NOV23-JPL-TechDev

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

Description Microwave Kinetic Inductance Detectors (MKIDs) are being developed for a broad range of applications in space science. These detectors use superconducting micro-resonators and therefore can be frequencymultiplexed to produce large arrays. A major recent emphasis in our work is the development of titanium nitride and other materials for achieving highly sensitive MKIDs operating at far-infrared wavelengths. We are seeking a postdoctoral fellow who is broadly interested in the development of MKID technology, including materials evaluation, device design, fabrication, characterization, and especially device physics. In addition, experience or interest in readout electronics and system applications will be considered.

## Location:

Jet Propulsion Laboratory Pasadena, California

Field of Science: Technology Development

## Advisors:

Henry LeDuc Henry.G.LeDuc@jpl.nasa.gov 818-354-2209

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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