Postdoc Position Available at CU DENVER NIST PREP Program

**NIST Organization (Div/Group):** Superconducting Nanowire Single-Photon Detector Development

The Applied Physics Division at NIST seeks qualified postdoctoral researchers to design, fabricate, and test a new type of superconducting single-photon detector. We anticipate multiple open positions in support of our efforts in developing superconducting nanowire single-photon detectors (SNSPDs). Our group is working to better understand basic superconductor device physics and to design, fabricate, and test next-generation SNSPDs for future applications in quantum optics, astronomy, and biomedical imaging.

The positions will be based in Boulder, Colorado, in the Quantum Nanophotonics and Faint Photonics groups led by Rich Mirin and Marty Stevens. Candidates will have access to the NIST-Boulder Microfabrication Facility, a state-of-the-art 18,000 square foot cleanroom dedicated primarily to superconductor micro- and nano-fabrication, and to extensive electrical and optical testing equipment.

**NIST Grade Equivalent:** ZP-III

Based on candidate’s education and experience, the candidate is equivalent to a NIST grade level as indicated above.

**Level of Appointment:** Postdoc

A qualified candidate will have a PhD in electrical engineering, physics, or a related field, as well as expertise in one or more of the following: superconductivity, nanofabrication, cryogenics, microwave electronics, or optics.

Additional experience beyond the Ph.D. is not required.

**US citizenship:** Not required.

**Salary Range Determination:** $80665-$85000

Based on candidate’s education and experience, the candidate is equivalent to a NIST grade level as indicated above.

**Length of Term:** Start dates are anticipated to be between July and December 2024.

For possible consideration and to apply to this position, qualified candidates should send a current CV, including contact information for three references and a publication list, to Hamid Fardi (hamid.fardi@ucdenver.edu).

**CU Denver PREP posting:**
https://engineering.ucdenver.edu/research/prep-research-program