



**Quantum Sensors Project  
National Institute of Standards and Technology  
Boulder, Colorado**

**SEEKS APPLICANTS FOR SUPERCONDUCTING  
DEVICE FABRICATION POSITION**

The Quantum Sensors Project (QSP) at NIST in Boulder, Colorado is searching for individuals with experience in the fabrication of superconducting electronics and devices. The QSP is a growing group of scientists and students with extensive clean-room experience and cryogenic test facilities. The QSP has a long history developing low-temperature technologies including submillimeter and millimeter-wave detectors, x-ray, gamma-ray and alpha-particle detectors, superconducting transition-edge sensors, SQUIDs, and SQUID multiplexers. The application areas of interest include the development and fabrication of large arrays of superconducting polarimeters for the measurement of the cosmic microwave background, fabrication of SQUID circuits, and fabrication of x-ray detectors for materials analysis and nuclear non-proliferation. Possible positions exist for individuals at a variety of levels (post-doctoral, fabrication technicians or engineers, or scientists.) Candidates with a background in superconducting and MEMS fabrication are preferred, but individuals with experience in other microelectronic fabrication research will also be considered. Long-term contract positions are possible for fabrication technicians, engineers, and senior scientists. Postdoctoral positions are available for recent Ph.D. graduates. NIST is a research laboratory that is part of the U.S. Department of Commerce. The QSP is located in Boulder, Colorado, roughly 45 minutes from Denver.

Interested applicants should send a curriculum vita to Kent Irwin ([irwin@nist.gov](mailto:irwin@nist.gov)), Gene Hilton ([hilton@boulder.nist.gov](mailto:hilton@boulder.nist.gov)), and Hsiao-Mei (Sherry) Cho ([hmcho@boulder.nist.gov](mailto:hmcho@boulder.nist.gov)).