

Job Opportunity: Staff Physicist
Sensor Science Division
National Institute of Standards and Technology (NIST)

Principal Objective:

The Temperature and Humidity Group at NIST seeks a full-time permanent staff member to advance the state of the art in the measurements of thermodynamic quantities and provide support for American industry through measurement services. The staff member shall perform research independently and as a member of a team to improve the realization and dissemination of the SI unit of temperature, the kelvin. The staff member will additionally validate and improve measurements through comparisons with other national metrology laboratories and by other methodologies.

Details of the Position:

The staff member will be performing tests and measurements with instrumentation such as Platinum resistance thermometers, resistance bridges, fixed-point cells and furnaces, analytical instruments, vacuum pumps, and flow equipment and will develop new or improved measurement methods and instrumentation that require broad cross-disciplinary knowledge to address electro-mechanical, chemical and thermo-mechanical research questions. The staff member should have the ability to conduct research to develop new or improved measurement methods and instruments and also be able to perform calibration tests and measurements with new and existing instrumentation.

Qualifications:

- B.S. or higher degree in Physics or a related field.
- Experience and/or strong interest in working with electrical measurements, vacuum systems, cryogenics, and thermo-mechanical systems.
- Passion for measurement science, especially precise measurements and high accuracy.
- Ability to operate and automate scientific test equipment and instrumentation.
- Familiarity with the programming languages LabVIEW and Python or willingness to learn.
- Strong oral and written communication skills.
- U.S. Citizenship is required for this position.

Qualified candidates should submit a letter of interest describing their research background and a CV with complete list of publications to howard.yoon@nist.gov.

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