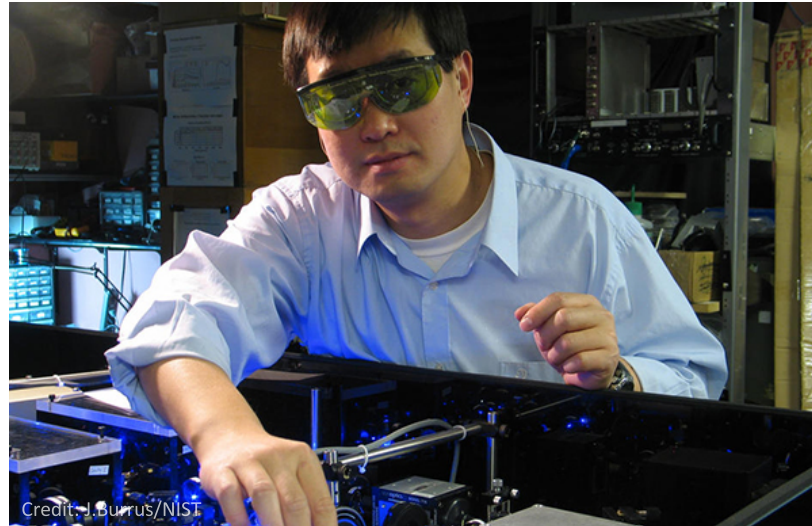


Strengthening American Competitiveness in Science, Technology, Engineering, and Math

NIST Mission



To promote U.S. innovation and industrial competitiveness by advancing **measurement science, standards, and technology** in ways that enhance economic security and improve our quality of life



NIST AT A GLANCE

Industry's National Laboratory



3,400+
FEDERAL
EMPLOYEES



5
NOBEL PRIZES



2 CAMPUSES
GAITHERSBURG, MD [HQ]
BOULDER, CO



2,700+
ASSOCIATES



10
COLLABORATIVE
INSTITUTES



Thousands
BUSINESSES USING
NIST FACILITIES



15
NATL OFFICE FOR
MANUFACTURING
INSTITUTES



51
MANUFACTURING
EXTENSION
PARTNERSHIP CENTERS



U.S. BALDRIGE
PERFORMANCE
EXCELLENCE PROGRAM

NIST Working to Ensure U.S. Technological Leadership in the Industries of the Future



NIST will continue to expand research efforts in these five areas and work to strengthen U.S. engagement in standardization efforts



Quantum Science

New quantum networking grand challenge will build on NIST world-leading science, while NIST expands industry partnerships in the Quantum Economic Development Consortium



Artificial Intelligence

Leading efforts to prioritize and address key AI standards needs while developing training and testing tools for research domains from materials science to robotics



Advanced Communications/5G

AI-enabled measurement systems to support wide deployment of 5G wireless technologies, Participating and leading in 5G standards development



Advanced Manufacturing

Providing technical support and key infrastructure to the nation's manufacturing industries as they strive to out-innovate global competitors



Engineering Biology

Living Systems Foundry for safe, predictable design and control of biological systems

Building America's scientific workforce with a focus on diversity and inclusion



“America’s diversity is a great strength. Leveraging that strength by broadening participation in the U.S. science and engineering enterprise will be crucial to fostering individual opportunity and a thriving economy.”

-National Science Board Vision 2030

NIST is seeking to expand engagement with HBCUs, HSIs and teaching focused institutions, their students, and alumni to help solve America’s most pressing scientific and technological challenges

Grow the
pipeline

Build
inclusivity
and equity

Be more
strategic

Summer Undergraduate Research Fellowship Program (SURF)



SURF benefits:

- \$5500 stipend for an 11-week fellowship or \$500/week
- Housing and travel subsidy; local commuting subsidy
- Invaluable connections and experience for graduate school or a career in STEM
- Seminars from world-class researchers, lab tours, Capitol Hill visits, and other one-of-a-kind opportunities throughout the summer



Connect with other STEM students from across the country in 11 weeks of hands-on research and mentoring in NIST laboratories.



Eligibility: US citizen or US permanent resident, STEM undergraduate, good academic standing, considering graduate school or career in STEM. Apply through USAJOBS.gov, typically in early December.



For more information:
<https://www.nist.gov/summer-undergraduate-research-fellowship-surf>

Professional Research Experience Program (PREP)



Collaborative research relationship between NIST and U.S. institutions of higher education in a variety of STEM disciplines. Applicants must be affiliated with a participating university.

Stipend and other benefits depending on researcher category: undergraduates, post-bachelor's degree, graduate students, master's degree holders, postdocs, research faculty.

For more information:

<https://www.nist.gov/iaao/academic-affairs-office/nist-professional-research-experience-program-prep>



Graduate Student Measurement Science and Engineering (GMSE) Fellowship Program



GMSE benefits:

- \$20,000 annual stipend, tuition coverage, and summer salary at NIST
- Over 100 participating universities
- Invaluable connections and experience, links between university research groups and NIST



Graduate level internship with flexible timeframes, ranging from a single summer to an entire graduate research program. Partnership with the Graduate Fellowships for STEM Diversity (GFSD).



Eligibility: accepted at a participating GFSD-member school, in a full-time program for a graduate degree in physical sciences or related engineering fields. Typically apply starting in August: <https://stemfellowships.org/applicants/>



For more information:
<https://www.nist.gov/iaao/academic-affairs-office/nist-graduate-student-measurement-science-and-engineering-gmse>

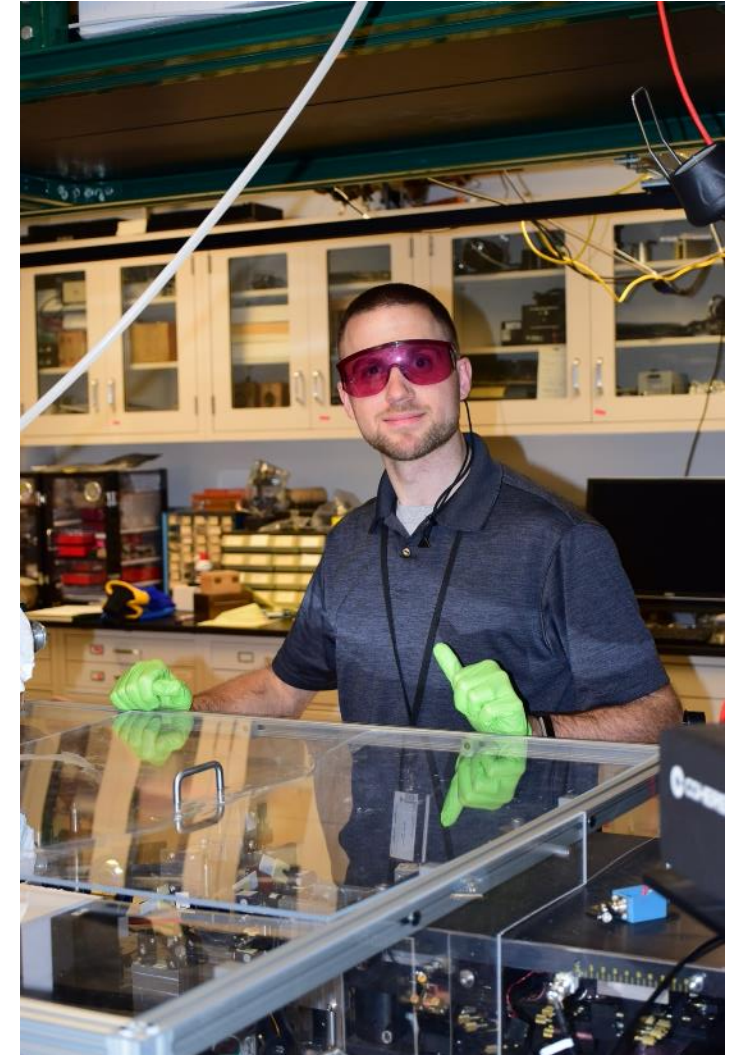
NRC Postdoctoral Research Associateship Program



Two-year temporary appointments for outstanding scientists and engineers. Awardees chosen through a national competition administered by the National Research Council of the National Academy of Sciences.

Annual Salary of ~\$72,028, plus \$3k travel. Bi-annual competitive program with a limit of 120 slots per year. Awardees must be US citizens, and have held their Ph.D. less than five years at time of application. To apply: <http://sites.nationalacademies.org/pga/rap/>

For more information:
<https://www.nist.gov/iaao/academic-affairs-office/nist-nrc-postdoctoral-research-associateships-program>



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