



PRESIDENT'S FY 2022 BUDGET REQUEST TO CONGRESS

The National Institute of Standards and Technology (NIST) mission is to promote U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology to enhance economic security and improve our quality of life.

We accomplish our mission through a number of ways, including:

- Supporting national manufacturing networks and workforce development.
- Driving discovery in emerging technologies — AI, quantum science, synthetic biology and more.
- Securing the supply chain through new research, measurements, standards and other tools.
- Serving as a credible source for science-based standards and tools for climate measurements, resilience and clean energy.

The FY 2022 budget request is an increase of **\$462.7 M**, or **44.7%**, over FY 2021 enacted levels to fully fund inflationary adjustments to current programs, grow funding for nationally critical mission areas, and expand NIST's manufacturing programs.

"Science and technology have flourished in the United States because of a rich ecosystem of people, policies, and institutions. This ecosystem must be nurtured and refreshed to succeed in a rapidly changing world."

- President Joe Biden, in a letter to Eric S. Lander, presidential science adviser

Budget Summary

Activity	FY20 Enacted	FY21 Enacted	FY22 Request
STRS	\$754.0	\$788.0	\$915.6
ITS	\$162.0	\$166.5	\$441.6
CRF	\$118.0	\$80.0	\$140.0
Total, NIST Discretionary	\$1,034.0	\$1,034.5	\$1,497.2

Included in the expanded budget are new efforts to ensure U.S. leadership in key administration priority areas:

Scientific and Technical Research and Services



Climate and Energy, +\$20M: Provide resources to predict, measure and manage the changing climate, and innovations for resilient energy infrastructure and intelligent buildings.



Quantum Science, +\$15M: Expand the quantum network testbed program, grow the Quantum Economic Development Consortium and increase joint institute partnerships.



Artificial Intelligence, +\$15M: Establish a new public-private partnership to accelerate trustworthy AI while expanding AI research capacities across the NIST laboratories.



Bioeconomy, +\$14M: Accelerate advancements in engineering biology, biomanufacturing for precision medicine and therapeutics integrating AI and biological data.



Advanced Communications, +\$12M: Provide measurements to support wide deployment of 5G and beyond wireless and ensure public safety leadership and engagement in standards development.



Microelectronics, +\$10M: Launch new research program to characterize physical properties and develop nanoscale processing for semiconductors, including upgraded fabrication facilities.



Circular Economy, +\$5M: Provide measurements and research to efficiently recover plastics and other materials in the supply chain with improved identification and sorting technologies and reference data for high-value multiuse plastics.



Equity and Diversity in the Workforce, +\$5M: Support a diverse workforce and build pipelines for the next generation of innovative scientists and engineers with a new metrology grants program for minority-serving institutions.

Industrial Technology Services



Manufacturing USA, +\$150.1M: Continues support of base funding for program coordination and network support and sponsorship of current DOC/NIST institute focused on biotechnology. Establishes funding for two additional institutes.



Hollings Manufacturing Extension Partnership, +\$125M: Increases core funding to MEP centers. Supports plans to expand capabilities to respond to critical needs, including a national supply chain initiative, a workforce development initiative and plans to establish manufacturing technology demonstration workspaces.



Construction of Research Facilities

+\$64M for the repair and revitalization of NIST facilities.