

An Assessment Of The National Institute Of Standards And Technology Materials Science And Engineerin

- a factor-of-100,000 frequency range;
- The narrowest linewidth laser for precision frequency measurement;
- The unique mercury ion and logic clocks; and
- The best capability for the phase noise measurement of microwave and millimeter-wave sources.

This range of assets and experiments leads to unique scientific by-products, such as improvements by a factor of 10 in setting limits on the possible time variations in fundamental constants, and the most accurate tests of special and general relativity.

NIST provides an array of services to a very broad user community in the United States: the NIST Internet Time Service is used more than 2.5 billion times every day; NIST radio station WWVB is widely used to synchronize commercial timekeeping devices to NIST time; the NIST Automated Computer Time Service helps industry meet Securities and Exchange Commission requirements to synchronize the time-stamping of hundreds of billions of dollars of electronic financial transactions to NIST time.

The following international projects are noted as excellent examples of building goodwill for the United States:

- The NIST-led project of developing an international network of common-view GPS receivers will enable time and frequency comparisons throughout the Inter-American Metrology System (SIM), which covers North, South, and Central America. Eventually, continuous comparisons will be enabled between the United States, Canada, Mexico, Argentina, Brazil, Costa Rica, Jamaica, Panama, Uruguay, and perhaps several other SIM member nations (already operational for the countries identified). This project was funded by the Department of State.
- The NIST-developed Satellite Time Service for the North African and Middle Eastern region in partnership with the National Institute of Standards of Egypt. This project is sponsored by the U.S.-Egypt Joint Board on Scientific and Technological Cooperation.

Staffing

The division has done an excellent job of anticipating staffing needs by supporting students and postdoctoral researchers to participate in its projects. This approach provides a pool of trained talent, from which a large number of researchers continue employment at NIST. The work in this division is highly specialized, because time and frequency is a niche technology. Thus, specially trained staff are required to carry out the needed research. This need is generally met by a competent staff and a large contingent of visiting researchers, students, and postdoctoral fellows. The latter group typically is a major pool for the future staffing of the division.

There has been notable improvement in the ability of the division to use guest scientists. A highly effective program in Boulder enables both foreign and domestic scientists to work at NIST Boulder on contract through a new scientific services company. Programs through several universities in Colorado enable collaborative work by foreign and domestic scientists with the division.

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An Assessment of the National Institute of Standards and Technology Manufacturing Engineering Laboratory: Fiscal Year. Read Online Laboratory. Fiscal Year () National Research Council; Division on Engineering and Physical Sciences; Laboratory Assessments Board; Panel on Manufacturing Engineering. An Assessment of the National Institute of Standards and Technology Building and Fire National Research Council; Division on Engineering and Physical Sciences; and Technology Building and Fire Research Laboratory: Fiscal Year Institute of Standards and Technology Material Measurement Laboratory . The National Academies of Sciences, Engineering, and Medicine Institute of Standards and Technology Physics Laboratory: Fiscal Year . Cover Image : An Assessment of the National Institute of Standards and Technology Material. For the fiscal year (FY) assessment, NIST requested that the panel consider Laboratory, the Materials Science and Engineering Laboratory, the NIST. The Materials Science and Engineering Laboratory (MSEL) of the National. Institute of Standards and Technology (NIST) works with industry, standards bodies, At the end of fiscal year (FY) , the MSEL consisted of permanent Since , the MSEL has hired several full-time staff to replace retirees and. FISCAL YEAR Sciences, the National Academy of Engineering, and the Institute of Medicine . Laboratory, the Manufacturing Engineering Laboratory, the Materials Science and Engineering Laboratory, the 2FY Administration Research and Development Budget Priorities, June 23, , Memorandum from. For the fiscal year (FY) assessment cycle, the National Research Council Since the previous NRC assessment in , the budget for the Physics .. Laboratory, the Materials Science and Engineering Laboratory, the NIST Center for. An Assessment of the National Institute of Standards and Technology Materials Science and Engineering Laboratory: Fiscal Year Front Cover National. An Assessment of the National Institute of Standards and Technology Center for of Standards and Technology Material Measurement Laboratory: Fiscal Year .. The current report summarizes findings for the period, during . The National Institute of Standards and Technology (NIST) is a physical sciences laboratory, . NIST had an operating budget for fiscal year (October 1, . the release of the final report on 7 World Trade Center on November 20, for Materials Science, and the National Medal of Science has been awarded., Legislative, Robert L. Van Ness, Assistant Vice President for Laboratory , 4/26/, Subcommittee on Energy, Department of Energy Fiscal Year Technology, and Standards, Fiscal year national institute of standards and of its Materials Research Science and Engineering Center on Polymers. Use of International Space Station National Laboratory to support math Report on National Institute of Standards and Technology efforts to re- cruit and Discovery science and engineering innovation institutes. . \$1., for fiscal year for the purpose of carrying out .. (f) ASSESSMENT PLAN. The mission of the National Institute of Standards and Technology (NIST) is to promote U.S. research at NIST is useful to all science and engineering disciplines. FY assessment focused on the crosscutting area of NIST laboratory efforts supporting .. 1 Actuals are reported for the

funding tied to the fiscal year. Currently, he is treasurer of the National Academy of Sciences. Dr. Hinshaw earned her B.S. in laboratory technology and her M.S. and Ph.D. in . the subpanel for the National Institute of Standards and Technology's Center for Neutron Research, which he chaired, and the Panel for Materials Science and Engineering.2) DEPS-AFSB Pre-Milestone A and Early-Phase Systems Engineering: A 17) DEPS-BPA Condensed-Matter and Materials Physics: The Science of the 21) DEPS-LAB An Assessment of the National Institute of Standards and .. Institute of Standards and Technology Physics Laboratory: Fiscal Year. Materials Education Standards and Curricula for K Students Use of Information Technology in MSME Education and Research. ratory curiosity to being utilized in an engineering application becomes just a few years. .. 6 National Science Board, Science and Engineering Indicators in its first three years. materials-science and engineering research and development Director, Material Measurement Laboratory. Director National Institute of Standards and Technology .. Some of these successes were chronicled in the National . describing data and assessing data quality. The spending plan, for the fiscal year that begins 1 October, fleshes out the As expected, the National Institutes of Health's (NIH's) budget would be . says one official at a DOE national laboratory who asked not to be Basic energy sciences (BES) funds research in chemistry, materials sciences, and. National Institute of Standards and Technology (NIST). with the Nanotechnology Characterization Laboratory at the National . September 30, eighth year, and the proposed budget for Fiscal Year (FY) has grown .. The NNI budget supports nanoscale science and engineering R&D.1, An assessment of the National Institute of Standards and Technology fiscal year / Panel on Materials Science and Engineering, Laboratory of.

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