



# FY 2011 Funding for the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

## April 2010

**Position:** The Council for Chemical Research (CCR) supports the President's proposed FY 2011 budget for the National Institute of Standards and Technology of \$918.9 million, which includes funding for the Technology Innovation Program (TIP), which supports, promotes, and accelerates innovation in the United States through high-risk, high-reward research in areas of critical national need. CCR strongly supports the President's request for the NIST laboratories and his plans to double its budget over 10 years, which began with the Bush administration's 2007 budget request.

**Who We Are:** CCR is a non-profit organization dedicated to advancing multi-sector, multi-disciplinary research in the chemical sciences and engineering. Its member organizations – companies, universities and government laboratories – are represented in CCR by their research leaders.

We recognize the budget constraints faced by Congress but strongly urge that funding for physical sciences research be strengthened as an investment in our Nation's future. Our studies (<http://www.ccrhq.org/publications>) and those of others demonstrate that Federal investments in chemical science research yield significant payback for the US economy. **Every dollar of Federal investment is leveraged by \$5 of private investment; this investment generates \$10 of operating income for industry (a 17% annual return), the economy gains roughly \$40 in GDP, \$8 in increased tax revenues, and creates 600,000 new jobs over the ensuing 20 year period.**

### Rationale

The Department of Commerce's National Institute of Standards and Technology (NIST) ensures America's technological superiority and economic prosperity through myriad achievements that have advanced the measurements, standards, and technology needed by U.S. Industry to make world-class products.

- **NIST's Laboratories in Maryland and Colorado address basic technology needs that are vital throughout the product development cycle**, from research and development to commercialization. The Laboratories provide U.S. industry and the science/technology community with the measurement capabilities, standards, evaluated reference data, and test methods needed to support innovation, improve quality, and lower transaction costs in virtually all technology-intensive sectors.
- **NIST's Chemical Science and Technology Laboratory provides impartial expertise, test methods, and best-in-the-world calibration services** that maximize efficiency, promote trade, ensure market access, and confidence in the growing number of precision measurements needed for a variety of sectors, including electronics, automotive, aerospace, chemicals, pharmaceuticals, food processing, climate change, and health care.
- **NIST's Science and Technology Research Program plays a vital role in homeland security** for the development of measurement infrastructure needed to detect nuclear and radiological threats; research into lessons learned from NIST-led investigation of the World Trade Center collapse in order to make buildings safer from future attacks; and development of standards and methods for biometric identification systems to identify non-citizens who enter the U.S. or apply for visas.
- **NIST plays a vital role in the globalization of markets** through its efforts to harmonize divergent national systems of measurements, standards, and methods of assessment of how products and services conform to the standards.
- **NIST's TIP program** provides the agility and flexibility to make targeted investments in transformational R&D that will ensure our Nation's future through sustained technological leadership.