



# FY 2012 Funding for the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

## April 2011

**Position:** The Council for Chemical Research (CCR) **supports the goal of doubling the budget for the NIST by FY17** (which began with the Bush administration's FY07 budget request). Therefore, CCR urges FY12 funding of at least \$1 billion (a 9 % increase over the FY11 request) to stay on this growth path and to ensure predictable and sustainable support for ongoing R&D projects.

**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 strongly urge the important components of funding for physical sciences research be maintained. 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 after tax return), the economy gains roughly \$40 in GDP and \$8 in increased tax revenues. A highly regarded CCR study showed that for 2001 the overall \$1B Federal investment in chemical R&D will create 600,000 new jobs over the following 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.