



The Technology Innovation Program (TIP)

**Executive Briefing
March 27, 2008**

**Robert Sienkiewicz
Acting Director, Impact Analysis Office**

(301) 975-4969

robert.sienkiewicz@nist.gov

www.nist.gov/tip

NIST assets include:

- \$756 million FY 2008 operating budget
- 2,800 employees
- 2,600 associates & facility users
- **NIST laboratories:** National measurement standards

- **Technology Innovation Program:** \$70 million FY 2008 including management of ongoing ATP awards
- **Manufacturing Extension Partnership:** centers in 350 locations nationwide to help small manufacturers
- **Baldrige National Quality Award**



Gaithersburg, MD



Boulder, CO

To promote U.S. innovation and industrial competitiveness by advancing

measurement science, **standards**, and **technology**

in ways that enhance economic security and improve the quality of life for all Americans.

The TIP Authorizing Legislation ...

- On August 9, 2007, the President signed the America COMPETES Act which abolished ATP and created the Technology Innovation Program (TIP)
- Projects selected in the 2007 competition will continue to be governed by the terms and conditions established for ATP

“Assisting United States businesses and institutions of higher education or other organizations, such as national laboratories and nonprofit research institutions, to support, promote, and accelerate innovation in the United States through high-risk, high-reward research in areas of critical national need.”

*America COMPETES Act
(H.R. 2272)
August 9, 2007*

Key Features of TIP...

- **Novel Purpose:** address societal challenges not being addressed in areas of Critical National Need (CNN) with benefits that extend significantly beyond proposers
- **Rich Teaming:** businesses, academia, National Labs, nonprofit research institutions and other organizations
- **Scientific & Technical Merit Review**
- **Transformational in nature:** strong potential for advancing state-of-the-art and contributing to U.S. science and technology base
- **Societal Challenges:** demand government attention
- **Clear Government Need:** no other funding sources are reasonably available

- Comprehensive Critical National Need selection process (internal and external)
- Gap Analysis – Determining CNNs
 - **NRC (National Research Council) of the National Academies of Science**
 - **STPI (Science & Technology Policy Institute)**
- Competition topic areas based on *needs*, not *technologies*, in meeting societal challenges

The TIP Advisory Board...

- Purpose:
 - Provide advice to the Director on plans & policies
 - Review TIP's efforts in R&D acceleration
 - Report on the health and effectiveness of TIP in meeting its mission
- 10 members (at least 7 from industry)
- Meets twice per year
- Reports to Congress

Types of Project Structures

- Single company projects led by a small or medium-sized U.S. company
- Joint venture projects of either:
 - 1) at least *two* for-profit U.S. companies with the project lead being a small or medium-sized company, or
 - 2) at least *one* small or medium-sized company and *one* institute of higher education or other eligible organization with the lead being either the small or medium-sized company or the institute of higher education



TIP Funding, Intellectual Property and Program Impacts...

- Funding levels
 - Single company projects up to \$3M for maximum three years.
 - Joint Venture projects may be funded up to \$9M for maximum five years
- Intellectual property resides with company or any JV member (including a university JV member)
- Program assessment required
- Establishes TIP Advisory Board
- Annual reports from Program and Advisory Board

- Larger funding limit with no equity taken, no reimbursement required, and no IP control/ownership
- One proposal cycle for entire funding amount (no phased approach)
- Award is based on risk, innovation, need for public funding, and potential societal impact; not the specific needs of one agency
- Allows institutions of higher learning to lead the R&D project
- Opportunities for state involvement with R&D planning

- Final Program Rule published March 7th
(currently out for public comment, due by April 21st)
- Proposal Preparation Kit under development
- CNN selection in progress
- New website available:
<http://www.nist.gov/tip/>