

Title: Technology Innovation Program (NIST)

FFO#: TIP-2010-B01

Link: [http://www.nist.gov/tip/cur\\_comp/upload/2010\\_ffo\\_competition\\_0410.pdf](http://www.nist.gov/tip/cur_comp/upload/2010_ffo_competition_0410.pdf)

Due Date(s): July 15, 2010, 9:59 MT

Eligible Institutions: A U.S.-owned, single, small-sized or medium-sized company doing a majority of its business in the United States or a joint venture may apply for TIP funding. Members of joint ventures that are companies must also be doing a majority of their business in the United States. Single company and Joint Venture proposals are allowed. Please read FFO carefully for specifics.

Purpose:

The goal of the research outcome/impacts from this competition is to provide manufacturers and end users improved access to adequate quantities of materials based on new advances at competitive costs that allow evaluation and utilization of these materials in innovative ways, and new manufacturing processes that can transform the way products are made. TIP's funding strategy for this competition will emphasize three important elements: 1) Process scale-up, integration and design for materials advances; 2) Predictive modeling for materials advances and materials processing; and 3) Critical process advances related to the manufacturability of materials and manufacturing of both new and existing products. These three elements of the societal challenge of accelerating the use of materials advances and advances in critical processes will be addressed as outlined in the white paper "Manufacturing and Biomanufacturing: Materials Advances and Critical Processes" ([http://www.nist.gov/tip/cur\\_comp/index.cfm](http://www.nist.gov/tip/cur_comp/index.cfm)).

If successful, the manufacturing solutions envisioned will have the potential to: **Create significant improvements in new and existing products and in their manufacture by accelerating the utilization of materials advances and overcoming critical manufacturing process bottlenecks to improve the competitiveness of U.S. manufacturers in the global marketplace.**

**PLEASE READ COMPLETE FFO FOR DETAILED INFORMATION ON EACH OF THE THREE ELEMENTS TO BE FUNDED.**

Period of Performance & Budget:

TIP anticipates funding approximately 25 projects. A single company can receive up to a total of \$3 million with a project period of performance of up to 3 years. A joint venture can receive up to a total of \$9 million with a project period of performance of up to 5 years.

Cost Share: At least 50 percent of the yearly total project costs (direct plus all of the indirect costs).

Restricted?: No

Proposal Preparation Kit: <http://www.nist.gov/tip/helpful-resources.cfm>

Proposer's Conference Presentation:

[http://www.nist.gov/tip/upload/2010\\_pc\\_slides\\_final\\_gburgweb.pdf](http://www.nist.gov/tip/upload/2010_pc_slides_final_gburgweb.pdf)