

(II) significant contributions to employment in the United States; and

(III) agreement with respect to any technology arising from assistance provided under this section to promote the manufacture within the United States of products resulting from that technology; and

(ii) the company is incorporated in a country which—

(I) affords to United States-owned companies opportunities, comparable to those afforded to any other company, to participate in any joint venture similar to those receiving funding under this section;

(II) affords to United States-owned companies local investment opportunities comparable to those afforded any other company; and

(III) affords adequate and effective protection for intellectual property rights of United States-owned companies;

(2) the term “high-risk, high-reward research” means research that—

(A) has the potential for yielding transformational results with far-ranging or wide-ranging implications;

(B) addresses critical national needs within the National Institute of Standards and Technology’s areas of technical competence; and

(C) is too novel or spans too diverse a range of disciplines to fare well in the traditional peer-review process;

(3) the term “institution of higher education” has the meaning given that term in section 1001 of title 20;

(4) the term “joint venture” means a joint venture that—

(A) includes either—

(i) at least 2 separately owned for-profit companies that are both substantially involved in the project and both of which are contributing to the cost-sharing required under this section, with the lead entity of the joint venture being one of those companies that is a small-sized or medium-sized business; or

(ii) at least 1 small-sized or medium-sized business and 1 institution of higher education or other organization, such as a national laboratory or nonprofit research institute, that are both substantially involved in the project and both of which are contributing to the cost-sharing required under this section, with the lead entity of the joint venture being either that small-sized or medium-sized business or that institution of higher education; and

(B) may include additional for-profit companies, institutions of higher education, and other organizations, such as national laboratories and nonprofit research institutes, that may or may not contribute non-Federal funds to the project; and

(5) the term “TIP Advisory Board” means the advisory board established under subsection (k).

(Mar. 3, 1901, ch. 872, § 28, as added Pub. L. 110-69, title III, § 3012(b), Aug. 9, 2007, 121 Stat. 593.)

REFERENCES IN TEXT

The Federal Advisory Committee Act, referred to in subsec. (k)(4), is Pub. L. 92-463, Oct. 6, 1972, 86 Stat. 770, which is set out in the Appendix to Title 5, Government Organization and Employees.

PRIOR PROVISIONS

A prior section 278n, act Mar. 3, 1901, ch. 872, § 28, as added Pub. L. 100-418, title V, § 5131(a), Aug. 23, 1988, 102 Stat. 1439; amended Pub. L. 102-245, title II, § 201(c), Feb. 14, 1992, 106 Stat. 16, related to the Advanced Technology Program, prior to repeal by Pub. L. 110-69, title III, § 3012(a), Aug. 9, 2007, 121 Stat. 593.

TECHNOLOGY INNOVATION PROGRAM

Pub. L. 111-240, title IV, § 4226(b), Sept. 27, 2010, 124 Stat. 2598, provided that: “In awarding grants, cooperative agreements, or contracts under section 28 of the National Institute of Standards and Technology Act (15 U.S.C. 278n), in addition to the award criteria set forth in subsection (c) of that section, the Director of the National Institute of Standards and Technology may take into consideration whether an application has significant potential for enhancing the competitiveness of small- and medium-sized businesses in the United States in the global marketplace. The Director shall consult with the Technology Innovation Program Advisory Board and the Secretary of Commerce in implementing this subsection.”

TRANSITION

Pub. L. 110-69, title III, § 3012(c), Aug. 9, 2007, 121 Stat. 598, provided that: “Notwithstanding the repeal made by subsection (a) [repealing former section 278n of this title], the Director shall carry out section 28 of the National Institute of Standards and Technology Act (15 U.S.C. 278n) as such section was in effect on the day before the date of the enactment of this Act [Aug. 9, 2007], with respect to applications for grants under such section submitted before such date, until the earlier of—

“(1) the date that the Director promulgates the regulations required under section 28(f) of the National Institute of Standards and Technology Act [15 U.S.C. 278n(f)], as added by subsection (b) [Final regulations implementing the Technology Innovation Program issued June 25, 2008. See 73 F.R. 35913.]; or

“(2) December 31, 2007.”

NATIONAL ACADEMIES OF SCIENCES AND ENGINEERING STUDY OF GOVERNMENT-INDUSTRY COOPERATION IN CIVILIAN TECHNOLOGY

Pub. L. 100-418, title V, § 5131(c), Aug. 23, 1988, 102 Stat. 1443, directed the Secretary of Commerce, within 90 days after Aug. 23, 1988, to enter into contracts with the National Academies of Sciences and Engineering to review the various types of cooperative arrangements between the private sector and the Federal Government and required a report based on the review to be submitted to the Secretary, the President, and Congress within 18 months after the contracts were signed.

§ 278n-1. Emergency communication and tracking technologies research initiative

(a) Establishment

The Director shall establish a research initiative to support the development of emergency communication and tracking technologies for use in locating trapped individuals in confined spaces, such as underground mines, and other shielded environments, such as high-rise buildings or collapsed structures, where conventional radio communication is limited.

(b) Activities

In order to carry out this section, the Director shall work with the private sector and appropriate Federal agencies to—

(1) perform a needs assessment to identify and evaluate the measurement, technical standards, and conformity assessment needs required to improve the operation and reliability of such emergency communication and tracking technologies;

(2) support the development of technical standards and conformance architecture to improve the operation and reliability of such emergency communication and tracking technologies; and

(3) incorporate and build upon existing reports and studies on improving emergency communications.

(c) Report

Not later than 18 months after January 4, 2011, the Director shall submit to Congress and make publicly available a report describing the assessment performed under subsection (b)(1) and making recommendations about research priorities to address gaps in the measurement, technical standards, and conformity assessment needs identified by the assessment.

(Pub. L. 111-358, title IV, § 405, Jan. 4, 2011, 124 Stat. 4003.)

CODIFICATION

Section was enacted as part of the America COMPETES Reauthorization Act of 2010, also known as the America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science Reauthorization Act of 2010, and as part of the National Institute of Standards and Technology Authorization Act of 2010, and not as part of the National Institute of Standards and Technology Act which comprises this chapter.

DEFINITIONS

Pub. L. 111-358, title IV, § 409, Jan. 4, 2011, 124 Stat. 4004, provided that: “In this title [enacting this section and sections 273a and 278n-2 of this title, amending sections 274, 278g-1, 278g-2, 278g-2a, and 278k of this title and sections 5314 and 5315 of Title 5, Government Organization and Employees, and repealing section 1533 of this title and provisions set out as a note under section 278k of this title]:

“(1) DIRECTOR.—The term ‘Director’ means the Director of the National Institute of Standards and Technology.

“(2) FEDERAL AGENCY.—The term ‘Federal agency’ has the meaning given such term in section 4 of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3703).

“(3) HIGH PERFORMANCE GREEN BUILDING.—The term ‘high performance green building’ has the meaning given that term by section 401(13) of the Energy Independence and Security Act of 2009 [probably should be ‘2007’] (42 U.S.C. 17061(13)).”

§ 278n-2. Green manufacturing and construction

The Director shall carry out a green manufacturing and construction initiative—

(1) to develop accurate sustainability metrics and practices for use in manufacturing;

(2) to advance the development of standards, including high performance green building standards, and the creation of an information

infrastructure to communicate sustainability information about suppliers; and

(3) to move buildings toward becoming high performance green buildings, including improving energy performance, service life, and indoor air quality of new and retrofitted buildings through validated measurement data.

(Pub. L. 111-358, title IV, § 408, Jan. 4, 2011, 124 Stat. 4004.)

CODIFICATION

Section was enacted as part of the America COMPETES Reauthorization Act of 2010, also known as the America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science Reauthorization Act of 2010, and as part of the National Institute of Standards and Technology Authorization Act of 2010, and not as part of the National Institute of Standards and Technology Act which comprises this chapter.

DEFINITIONS

For definitions of “Director” and “high performance green building” as used in this section, see section 409 of Pub. L. 111-358, set out as a note under section 278n-1 of this title.

§ 278o. User fees

The Institute shall not implement a policy of charging fees with respect to the use of Institute research facilities by research associates in the absence of express statutory authority to charge such fees.

(Mar. 3, 1901, ch. 872, § 30, as added Pub. L. 100-418, title V, § 5161, Aug. 23, 1988, 102 Stat. 1450.)

§ 278p. Notice to Congress**(a) Notice of reprogramming**

If any funds authorized for carrying out this chapter are subject to a reprogramming action that requires notice to be provided to the Appropriations Committees of the House of Representatives and the Senate, notice of such action shall concurrently be provided to the Committee on Science of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate.

(b) Notice of reorganization**(1) Requirement**

The Secretary shall provide notice to the Committees on Science and Appropriations of the House of Representatives, and the Committees on Commerce, Science, and Transportation and Appropriations of the Senate, not later than 15 days before any major reorganization of any program, project, or activity of the Institute.

(2) “Major reorganization” defined

For purposes of this subsection, the term “major reorganization” means any reorganization of the Institute that involves the reassignment of more than 25 percent of the employees of the Institute.

(Mar. 3, 1901, ch. 872, § 31, as added Pub. L. 105-309, § 4(b), Oct. 30, 1998, 112 Stat. 2935.)

CHANGE OF NAME

Committee on Science of House of Representatives changed to Committee on Science and Technology of