

(b) Manufacturing fellowship program**(1) Establishment**

To promote the development of a robust research community working at the leading edge of manufacturing sciences, the Director shall establish a program to award—

(A) postdoctoral research fellowships at the Institute for research activities related to manufacturing sciences; and

(B) senior research fellowships to established researchers in industry or at institutions of higher education who wish to pursue studies related to the manufacturing sciences at the Institute.

(2) Applications

To be eligible for an award under this subsection, an individual shall submit an application to the Director at such time, in such manner, and containing such information as the Director may require.

(3) Stipend levels

Under this subsection, the Director shall provide stipends for postdoctoral research fellowships at a level consistent with the National Institute of Standards and Technology Postdoctoral Research Fellowship Program, and senior research fellowships at levels consistent with support for a faculty member in a sabbatical position.

(c) Underrepresented minorities

In evaluating applications for fellowships under this section, the Director shall give consideration to the goal of promoting the participation of underrepresented minorities in research areas supported by the Institute.

(Mar. 3, 1901, ch. 872, § 18, as added Pub. L. 99-574, § 6(a), Oct. 28, 1986, 100 Stat. 3237; amended Pub. L. 100-418, title V, § 5115(a)(1), Aug. 23, 1988, 102 Stat. 1433; Pub. L. 102-245, title I, § 104(h)(1), Feb. 14, 1992, 106 Stat. 11; Pub. L. 110-69, title III, §§ 3008, 3013(a), Aug. 9, 2007, 121 Stat. 591, 598; Pub. L. 111-358, title IV, §§ 406(a), § 407(b), Jan. 4, 2011, 124 Stat. 4003, 4004.)

PRIOR PROVISIONS

A prior section 18 of act Mar. 3, 1901, ch. 872, was re-numbered section 32 and is classified to section 278q of this title.

AMENDMENTS

2011—Subsec. (a). Pub. L. 111-358, § 407(b), struck out “up to 1.5 percent of the” after “expend”.

Subsec. (c). Pub. L. 111-358, § 406(a), added subsec. (c).

2007—Pub. L. 110-69 designated existing provisions as subsec. (a), inserted heading, substituted “up to 1.5 percent of the” for “up to 1 per centum of the”, and added subsec. (b).

1992—Pub. L. 102-245 inserted before period at end of first sentence “, and to United States citizens for research and technical activities on Institute programs”.

1988—Pub. L. 100-418 substituted “Institute” for “National Bureau of Standards” the first place appearing, and for “Bureau” wherever subsequently appearing.

EFFECTIVE DATE

Pub. L. 99-574, § 6(b), Oct. 28, 1986, 100 Stat. 3237, provided that: “The amendments made by subsection (a) [enacting this section] shall be effective October 1, 1986.”

§ 278g-2. Post-doctoral fellowship program

The Institute shall establish and conduct a post-doctoral fellowship program, subject to the

availability of appropriations, which shall be organized and carried out in substantially the same manner as the National Academy of Sciences/National Research Council Post-Doctoral Research Associate Program that was in effect prior to 1986, and which shall include not less than twenty nor more than 120 new fellows per fiscal year. In evaluating applications for fellowships under this section, the Director shall give consideration to the goal of promoting the participation of underrepresented minorities in research areas supported by the Institute.

(Mar. 3, 1901, ch. 872, § 19, as added Pub. L. 99-574, § 8(a), Oct. 28, 1986, 100 Stat. 3238; amended Pub. L. 100-418, title V, § 5115(a)(1), Aug. 23, 1988, 102 Stat. 1433; Pub. L. 104-113, § 8(3), Mar. 7, 1996, 110 Stat. 779; Pub. L. 110-69, title III, § 3015, Aug. 9, 2007, 121 Stat. 599; Pub. L. 111-358, title IV, §§ 406(b), 407(a), Jan. 4, 2011, 124 Stat. 4004.)

PRIOR PROVISIONS

A prior section 19 of act Mar. 3, 1901, ch. 872, was re-numbered section 32 and is classified to section 278q of this title.

AMENDMENTS

2011—Pub. L. 111-358, § 407(a), struck out “, in conjunction with the National Academy of Sciences,” after “The Institute”.

Pub. L. 111-358, § 406(b), inserted at end “In evaluating applications for fellowships under this section, the Director shall give consideration to the goal of promoting the participation of underrepresented minorities in research areas supported by the Institute.”

2007—Pub. L. 110-69 substituted “nor more than 120 new fellows” for “nor more than 60 new fellows”.

1996—Pub. L. 104-113 inserted “, subject to the availability of appropriations,” after “post-doctoral fellowship program” and substituted “nor more than 60” for “nor more than forty”.

1988—Pub. L. 100-418 substituted “Institute” for “National Bureau of Standards”.

EFFECTIVE DATE

Pub. L. 99-574, § 8(b), Oct. 28, 1986, 100 Stat. 3238, provided that: “The amendments made by subsection (a) [enacting this section] shall be effective October 1, 1987.”

§ 278g-2a. Teacher science and technology enhancement Institute program**(a) Establishment**

The Director shall establish within the Institute a teacher science and technology enhancement program to provide for professional development of mathematics and science teachers of elementary, middle, and secondary schools (as those terms are defined by the Director), including providing for the improvement of those teachers with respect to the understanding of science and the impacts of science on commerce.

(b) Areas of focus

In carrying out the program under this section, the Director shall focus on the areas of—

- (1) scientific measurements;
- (2) tests and standards development;
- (3) industrial competitiveness and quality;
- (4) manufacturing;
- (5) technology transfer; and
- (6) any other area of expertise of the Institute that the Director determines to be appropriate.

(c) Procedures and selection criteria

The Director shall develop and issue procedures and selection criteria for participants in the program. The Director shall give special consideration to an application from a teacher from a high-need school, as defined in section 1021 of title 20.

(d) Scheduling

The program under this section shall be conducted on an annual basis during the summer months, during the period of time when a majority of elementary, middle, and secondary schools have not commenced a school year.

(e) Means of accomplishing goals

The program shall provide for teachers' participation in activities at the laboratory facilities of the Institute, or shall utilize other means of accomplishing the goals of the program as determined by the Director, which may include the Internet, video conferencing and recording, and workshops and conferences.

(Mar. 3, 1901, ch. 872, § 19A, as added Pub. L. 105-309, § 7, Oct. 30, 1998, 112 Stat. 2937; amended Pub. L. 111-358, title IV, § 406(c), Jan. 4, 2011, 124 Stat. 4004.)

AMENDMENTS

2011—Subsec. (c). Pub. L. 111-358 inserted at end “The Director shall give special consideration to an application from a teacher from a high-need school, as defined in section 1021 of title 20.”

§ 278g-3. Computer standards program**(a) In general**

The Institute shall—

(1) have the mission of developing standards, guidelines, and associated methods and techniques for information systems;

(2) develop standards and guidelines, including minimum requirements, for information systems used or operated by an agency or by a contractor of an agency or other organization on behalf of an agency, other than national security systems (as defined in section 3532(b)(2) of title 44);

(3) develop standards and guidelines, including minimum requirements, for providing adequate information security for all agency operations and assets, but such standards and guidelines shall not apply to national security systems; and

(4) carry out the responsibilities described in paragraph (3) through the Computer Security Division.

(b) Minimum requirements for standards and guidelines

The standards and guidelines required by subsection (a) of this section shall include, at a minimum—

(1)(A) standards to be used by all agencies to categorize all information and information systems collected or maintained by or on behalf of each agency based on the objectives of providing appropriate levels of information security according to a range of risk levels;

(B) guidelines recommending the types of information and information systems to be included in each such category; and

(C) minimum information security requirements for information and information systems in each such category;

(2) a definition of and guidelines concerning detection and handling of information security incidents; and

(3) guidelines developed in coordination with the National Security Agency for identifying an information system as a national security system consistent with applicable requirements for national security systems, issued in accordance with law and as directed by the President.

(c) Development of standards and guidelines

In developing standards and guidelines required by subsections (a) and (b) of this section, the Institute shall—

(1) consult with other agencies and offices (including, but not limited to, the Director of the Office of Management and Budget, the Departments of Defense and Energy, the National Security Agency, the Government Accountability Office, and the Secretary of Homeland Security) to assure—

(A) use of appropriate information security policies, procedures, and techniques, in order to improve information security and avoid unnecessary and costly duplication of effort; and

(B) that such standards and guidelines are complementary with standards and guidelines employed for the protection of national security systems and information contained in such systems;

(2) provide the public with an opportunity to comment on proposed standards and guidelines;

(3) submit to the Director of the Office of Management and Budget for promulgation under section 11331 of title 40—

(A) standards, as required under subsection (b)(1)(A) of this section, no later than 12 months after November 25, 2002; and

(B) minimum information security requirements for each category, as required under subsection (b)(1)(C) of this section, no later than 36 months after November 25, 2002;

(4) issue guidelines as required under subsection (b)(1)(B) of this section, no later than 18 months after November 25, 2002;

(5) ensure that such standards and guidelines do not require specific technological solutions or products, including any specific hardware or software security solutions;

(6) ensure that such standards and guidelines provide for sufficient flexibility to permit alternative solutions to provide equivalent levels of protection for identified information security risks; and

(7) use flexible, performance-based standards and guidelines that, to the greatest extent possible, permit the use of off-the-shelf commercially developed information security products.

(d) Information security functions

The Institute shall—

(1) submit standards developed pursuant to subsection (a) of this section, along with recommendations as to the extent to which these