(B) the quality of the applicant's existing research and education programs;

(C) the likelihood that the program will recruit increased numbers of students, including students from groups historically underrepresented in computer and network security related disciplines, to pursue and earn doctorate degrees in computer and network security;

(D) the nature and quality of the internship program established through collaborations with government laboratories, nonprofit research institutions, and for-profit institutions;

(E) the integration of internship opportunities into graduate students' research; and

(F) the relevance of the proposed program to current and future computer and network security needs.

(7) Authorization of appropriations

There are authorized to be appropriated to the National Science Foundation to carry out this subsection—

(A) $10,000,000 for fiscal year 2003;
(B) $20,000,000 for fiscal year 2004;
(C) $20,000,000 for fiscal year 2005;
(D) $20,000,000 for fiscal year 2006; and
(E) $20,000,000 for fiscal year 2007.

(d) Graduate Research Fellowships program support

Computer and network security shall be included among the fields of specialization supported by the National Science Foundation's Graduate Research Fellowships program under section 1869 of title 42.

(e) Cyber security faculty development traineeship program

(1) In general

The Director shall establish a program to award grants to institutions of higher education to establish traineeship programs to enable graduate students to pursue academic careers in cyber security upon completion of doctoral degrees.

(2) Merit review; competition

Grants shall be awarded under this section on a merit-reviewed competitive basis.

(3) Application

Each institution of higher education desiring to receive a grant under this subsection shall submit an application to the Director at such time, in such manner, and containing such information as the Director shall require.

(4) Use of funds

Funds received by an institution of higher education under this paragraph shall—

(A) be made available to individuals on a merit-reviewed competitive basis and in accordance with the requirements established in paragraph (7);

(B) be in an amount that is sufficient to cover annual tuition and fees for doctoral study at an institution of higher education for the duration of the graduate traineeship, and shall include, in addition, an annual living stipend of $25,000; and

(C) be provided to individuals for a duration of no more than 5 years, the specific duration of each graduate traineeship to be determined by the institution of higher education, on a case-by-case basis.

(5) Repayment

Each graduate traineeship shall—

(A) subject to paragraph (5)(B), be subject to full repayment upon completion of the doctoral degree according to a repayment schedule established and administered by the institution of higher education;

(B) be forgiven at the rate of 20 percent of the total amount of the graduate traineeship assistance received under this section for each academic year that a recipient is employed as a full-time faculty member at an institution of higher education for a period not to exceed 5 years; and

(C) be monitored by the institution of higher education receiving a grant under this subsection to ensure compliance with this subsection.

(6) Exceptions

The Director may provide for the partial or total waiver or suspension of any service obligation or payment by an individual under this section whenever compliance by the individual is impossible or would involve extreme hardship to the individual, or if enforcement of such obligation with respect to the individual would be unconscionable.

(7) Eligibility

To be eligible to receive a graduate traineeship under this section, an individual shall—

(A) be a citizen, national, or lawfully admitted permanent resident alien of the United States; and

(B) demonstrate a commitment to a career in higher education.

(8) Consideration

In making selections for graduate traineeships under this paragraph, an institution receiving a grant under this subsection shall consider, to the extent possible, a diverse pool of applicants whose interests are of an interdisciplinary nature, encompassing the social scientific as well as the technical dimensions of cyber security.

(9) Authorization of appropriations

There are authorized to be appropriated to the National Science Foundation to carry out this paragraph $5,000,000 for each of fiscal years 2003 through 2007.

(Pub. L. 107–305, § 5, Nov. 27, 2002, 116 Stat. 2370.)

REFERENCES IN TEXT

The Scientific and Advanced Technology Act of 1992, referred to in subsec. (b)(1), is Pub. L. 102–476, Oct. 23, 1992, 106 Stat. 2297, as amended, which is classified generally to section 1862h et seq. of Title 42, The Public Health and Welfare. For complete classification of this Act to the Code, see Short Title note set out under section 1861 of Title 42 and Tables.

§ 7405. Consultation

In carrying out sections 7403 and 7404 of this title, the Director shall consult with other Federal agencies.

(Pub. L. 107–305, § 6, Nov. 27, 2002, 116 Stat. 2374.)

§ 7406. National Institute of Standards and Technology programs

(a), (b) Omitted

(c) Checklists for Government systems

(1) In general

The Director of the National Institute of Standards and Technology shall develop, and revise as necessary, a checklist setting forth settings and option selections that minimize the security risks associated with each computer hardware or software system that is, or is likely to become, widely used within the Federal Government.

(2) Priorities for development; excluded systems

The Director of the National Institute of Standards and Technology may establish priorities for the development of checklists under this paragraph on the basis of the security risks associated with the use of the system, the number of agencies that use a particular system, the usefulness of the checklist to Federal agencies that are users or potential users of the system, or such other factors as the Director determines to be appropriate. The Director of the National Institute of Standards and Technology may exclude from the application of paragraph (1) any computer hardware or software system for which the Director of the National Institute of Standards and Technology determines that the development of a checklist is inappropriate because of the infrequency of use of the system, the obsolescence of the system, or the inutility or impracticability of developing a checklist for the system.

(3) Dissemination of checklists

The Director of the National Institute of Standards and Technology shall make any checklist developed under this paragraph for any computer hardware or software system available to each Federal agency that is a user or potential user of the system.

(4) Agency use requirements

The development of a checklist under paragraph (1) for a computer hardware or software system does not—

(A) require any Federal agency to select the specific settings or options recommended by the checklist for the system;

(B) establish conditions or prerequisites for Federal agency procurement or deployment of any such system;

(C) represent an endorsement of any such system by the Director of the National Institute of Standards and Technology; nor

(D) preclude any Federal agency from procuring or deploying other computer hardware or software systems for which no such checklist has been developed.

(d) Federal agency information security programs

(1) In general

In developing the agencywide information security program required by section 3534(b) of title 44, an agency that deploys a computer hardware or software system for which the Director of the National Institute of Standards and Technology has developed a checklist under subsection (c) of this section—

(A) shall include in that program an explanation of how the agency has considered such checklist in deploying that system; and

(B) may treat the explanation as if it were a portion of the agency's annual performance plan properly classified under criteria established by an Executive Order (within the meaning of section 1115(d) of title 31).

(2) Limitation

Paragraph (1) does not apply to any computer hardware or software system for which the National Institute of Standards and Technology does not have responsibility under section 278g–3(a)(3) of this title.

(Pub. L. 107–305, § 8, Nov. 27, 2002, 116 Stat. 2375.)

CODIFICATION

Section is comprised of section 8 of Pub. L. 107–305. Subsec. (a) of section 8 of Pub. L. 107–305 enacted section 278h of this title and renumbered former section 278h of this title as section 278q of this title. Subsec. (b) of section 8 of Pub. L. 107–305 amended section 278g–3 of this title.

§ 7407. Authorization of appropriations

There are authorized to be appropriated to the Secretary of Commerce for the National Institute of Standards and Technology—

(1) for activities under section 278h of this title—

(A) $25,000,000 for fiscal year 2003;
(B) $40,000,000 for fiscal year 2004;
(C) $55,000,000 for fiscal year 2005;
(D) $70,000,000 for fiscal year 2006;
(E) $85,000,000 for fiscal year 2007; and

(2) for activities under section 278g–3(f) of this title—

(A) $6,000,000 for fiscal year 2003;
(B) $6,200,000 for fiscal year 2004;
(C) $6,400,000 for fiscal year 2005;
(D) $6,600,000 for fiscal year 2006; and
(E) $6,800,000 for fiscal year 2007.

(Pub. L. 107–305, § 11, Nov. 27, 2002, 116 Stat. 2379.)

§ 7408. National Academy of Sciences study on computer and network security in critical infrastructures

(a) Study

Not later than 3 months after November 27, 2002, the Director of the National Institute of Standards and Technology shall enter into an arrangement with the National Research Council of the National Academy of Sciences to conduct a study of the vulnerabilities of the Nation's network infrastructure and make recommendations for appropriate improvements. The National Research Council shall—

(1) review existing studies and associated data on the architectural, hardware, and software vulnerabilities and interdependencies in United States critical infrastructure networks;

(2) identify and assess gaps in technical capability for robust critical infrastructure network security and make recommendations for