

REFERENCES IN TEXT

This chapter, referred to in text, was in the original “this Act”, meaning Pub. L. 107-231, Oct. 1, 2002, 116 Stat. 1471, known as the National Construction Safety Team Act, which is classified principally to this chapter. For complete classification of this Act to the Code, see Short Title note set out under section 7301 of this title and Tables.

CHAPTER 100—CYBER SECURITY RESEARCH AND DEVELOPMENT

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§ 7401. Findings

The Congress finds the following:

(1) Revolutionary advancements in computing and communications technology have interconnected government, commercial, scientific, and educational infrastructures—including critical infrastructures for electric power, natural gas and petroleum production and distribution, telecommunications, transportation, water supply, banking and finance, and emergency and government services—in a vast, interdependent physical and electronic network.

(2) Exponential increases in interconnectivity have facilitated enhanced communications, economic growth, and the delivery of services critical to the public welfare, but have also increased the consequences of temporary or prolonged failure.

(3) A Department of Defense Joint Task Force concluded after a 1997 United States information warfare exercise that the results “clearly demonstrated our lack of preparation for a coordinated cyber and physical attack on our critical military and civilian infrastructure”.

(4) Computer security technology and systems implementation lack—

- (A) sufficient long term research funding;
- (B) adequate coordination across Federal and State government agencies and among government, academia, and industry; and
- (C) sufficient numbers of outstanding researchers in the field.

(5) Accordingly, Federal investment in computer and network security research and development must be significantly increased to—

- (A) improve vulnerability assessment and technological and systems solutions;
- (B) expand and improve the pool of information security professionals, including re-

searchers, in the United States workforce; and

(C) better coordinate information sharing and collaboration among industry, government, and academic research projects.

(6) While African-Americans, Hispanics, and Native Americans constitute 25 percent of the total United States workforce and 30 percent of the college-age population, members of these minorities comprise less than 7 percent of the United States computer and information science workforce.

(Pub. L. 107-305, §2, Nov. 27, 2002, 116 Stat. 2367.)

SHORT TITLE

Pub. L. 107-305, §1, Nov. 27, 2002, 116 Stat. 2367, provided that: “This Act [enacting this chapter and section 278h of this title, amending sections 278g-3, 1511e, and 7301 of this title and section 1862 of Title 42, The Public Health and Welfare, and redesignating section 278h of this title as 278q of this title] may be cited as the ‘Cyber Security Research and Development Act.’”

§ 7402. Definitions

In this chapter:

(1) Director

The term “Director” means the Director of the National Science Foundation.

(2) Institution of higher education

The term “institution of higher education” has the meaning given that term in section 1001(a) of title 20.

(Pub. L. 107-305, §3, Nov. 27, 2002, 116 Stat. 2368.)

REFERENCES IN TEXT

This chapter, referred to in text, was in the original “this Act”, meaning Pub. L. 107-305, Nov. 27, 2002, 116 Stat. 2367, known as the Cyber Security Research and Development Act, which is classified principally to this chapter. For complete classification of this Act to the Code, see Short Title note set out under section 7401 of this title and Tables.

§ 7403. National Science Foundation research

(a) Computer and network security research grants

(1) In general

The Director shall award grants for basic research on innovative approaches to the structure of computer and network hardware and software that are aimed at enhancing computer security. Research areas may include—

- (A) authentication, cryptography, and other secure data communications technology;
- (B) computer forensics and intrusion detection;
- (C) reliability of computer and network applications, middleware, operating systems, control systems, and communications infrastructure;
- (D) privacy and confidentiality;
- (E) network security architecture, including tools for security administration and analysis;
- (F) emerging threats;
- (G) vulnerability assessments and techniques for quantifying risk;
- (H) remote access and wireless security;