

to the congressional defense committees notice of such determination, together with a justification for such determination. Such justification shall include—

“(A) how the Secretary intends to coordinate and harmonize covered academic engagement programs; and

“(B) measures to determine effectiveness of covered academic engagement programs absent a designated central program office responsible for overseeing covered academic programs across the Department.

“(d) REPORT.—Not later than 270 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the congressional defense committees a report that updates the matters required for inclusion in the reports required pursuant to section 1649 of the National Defense Authorization Act for Fiscal Year 2020 (Public Law 116-92) [133 Stat. 1758] and section 1726(c) of the William M. (Mac) Thornberry National Defense Authorization Act for Fiscal Year 2021 (Public Law 116-283) [134 Stat. 4116].

“(e) DISCHARGE THROUGH DIRECTOR.—In carrying out this section, the Secretary of Defense shall act through the Director of the office established under section 2192c of title 10, United States Code.

“(f) DEFINITION.—In this section, the term ‘covered academic engagement program’ means each of the following:

“(1) Primary, secondary, or post-secondary education programs with a cyber focus.

“(2) Recruitment or retention programs for Department of Defense cyberspace personnel, including scholarship programs.

“(3) Academic partnerships focused on establishing cyber talent.

“(4) Cyber enrichment programs.”

ENCOURAGEMENT OF CONTRACTOR SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM) PROGRAMS

Pub. L. 116-283, div. A, title II, § 245(a)–(d), Jan. 1, 2021, 134 Stat. 3489, 3490, provided that:

“(a) IN GENERAL.—The Under Secretary of Defense for Research and Engineering, in coordination with the Under Secretary of Defense for Acquisition and Sustainment, shall develop programs and incentives to ensure that Department of Defense contractors take appropriate steps to—

“(1) enhance undergraduate, graduate, and doctoral programs in science, technology, engineering, and mathematics (in this section referred to as ‘STEM’);

“(2) make investments, such as programming and curriculum development, in STEM programs within elementary schools and secondary schools;

“(3) encourage employees to volunteer in elementary schools and secondary schools, including schools that the Secretary of Defense determines serve high numbers or percentages of students from low-income families or that serve significant populations of military dependents, in order to enhance STEM education and programs;

“(4) establish partnerships with appropriate entities, including institutions of higher education for the purpose of training students in technical disciplines;

“(5) make personnel available to advise and assist in STEM educational activities aligned with functions of the Department of Defense;

“(6) award scholarships and fellowships, and establish work-based learning programs in scientific disciplines;

“(7) conduct recruitment activities to enhance the diversity of the STEM workforce; or

“(8) make internships available to students of secondary schools, undergraduate, graduate, and doctoral programs in STEM disciplines.

“(b) AWARD PROGRAM.—The Secretary of Defense shall establish procedures to recognize defense industry contractors that demonstrate excellence in supporting

STEM education, partnerships, programming, and other activities to enhance participation in STEM fields.

“(c) IMPLEMENTATION.—Not later than 270 days after the date of the enactment of this Act [Jan. 1, 2021], the Under Secretary of Defense for Research and Engineering shall submit to the congressional defense committees [Committees on Armed Services and Appropriations of the Senate and House of Representatives] a report on the steps taken to implement the requirements of this section.

“(d) DEFINITIONS.—In this section:

“(1) The terms ‘elementary school’ and ‘secondary school’ have the meanings given those terms in section 8101 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 7801).

“(2) The term ‘institution of higher education’ has the meaning given such term in section 101 of the Higher Education Act of 1965 (20 U.S.C. 1001).”

Pub. L. 112-81, div. A, title VIII, § 862, Dec. 31, 2011, 125 Stat. 1521, which related to the encouragement of contractor science, technology, engineering, and math (STEM) programs, was repealed by Pub. L. 116-283, div. A, title II, § 245(e), Jan. 1, 2021, 134 Stat. 3490.

§ 2191. Graduate fellowships

(a) The Secretary of Defense shall prescribe regulations providing for the award of fellowships to citizens and nationals of the United States who agree to pursue graduate degrees in science, engineering, or other fields of study designated by the Secretary to be of priority interest to the Department of Defense.

(b) A fellowship awarded pursuant to regulations prescribed under subsection (a) shall be known as a “National Defense Science and Engineering Graduate Fellowship”.

(c) National Defense Science and Engineering Graduate Fellowships shall be awarded solely on the basis of academic ability. The Secretary shall take all appropriate actions to encourage applications for such fellowships of persons who are members of groups (including minority groups, women, and disabled persons) which historically have been underrepresented in science and technology fields. Recipients shall be selected on the basis of a nationwide competition. The award of a fellowship under this section may not be predicated on the geographic region in which the recipient lives or the geographic region in which the recipient will pursue an advanced degree.

(d) The regulations prescribed under this section shall include—

(1) the criteria for award of fellowships;

(2) the procedures for selecting recipients;

(3) the basis for determining the amount of a fellowship; and

(4) the maximum amount that may be awarded to an individual during an academic year.

(Added Pub. L. 101-189, div. A, title VIII, § 843(d)(1), Nov. 29, 1989, 103 Stat. 1516.)

§ 2192. Improvement of education in technical fields: general authority regarding education in science, mathematics, and engineering

(a) The Secretary of Defense, in consultation with the Secretary of Education, shall, on a continuing basis—

(1) identify actions which the Department of Defense may take to improve education in the scientific, mathematics, and engineering

skills necessary to meet the long-term national defense needs of the United States for personnel proficient in such skills; and

(2) establish and conduct programs to carry out such actions.

(b)(1) In furtherance of the authority of the Secretary of Defense under any provision of this chapter or any other provision of law to support educational programs in science, mathematics, engineering, and technology, the Secretary of Defense may, unless otherwise specified in such provision—

(A) enter into contracts and cooperative agreements with eligible entities;

(B) make grants of financial assistance to eligible entities;

(C) provide cash awards and other items to eligible entities;

(D) accept voluntary services from eligible entities; and

(E) support national competition judging, other educational event activities, and associated award ceremonies in connection with these educational programs.

(2) The Secretary of Defense may carry out the authority in paragraph (1) through the Secretaries of the military departments.

(3) In this subsection:

(A) The term “eligible entity” includes a department or agency of the Federal Government, a State, a political subdivision of a State, an individual, and a not-for-profit or other organization in the private sector.

(B) The term “State” means any State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, Guam, the United States Virgin Islands, the Commonwealth of the Northern Mariana Islands, American Samoa, and any other territory or possession of the United States.

(c) The Secretary shall designate an individual within the Office of the Secretary of Defense to advise and assist the Secretary regarding matters relating to science, mathematics, and engineering education and training.

(Added Pub. L. 101-510, div. A, title II, §247(a)(1), Nov. 5, 1990, 104 Stat. 1521; amended Pub. L. 106-65, div. A, title V, §580(d)(1), Oct. 5, 1999, 113 Stat. 633; Pub. L. 108-136, div. A, title II, §233, Nov. 24, 2003, 117 Stat. 1423; Pub. L. 111-383, div. A, title II, §211(a), Jan. 7, 2011, 124 Stat. 4162.)

Editorial Notes

AMENDMENTS

2011—Subsec. (b)(2), (3). Pub. L. 111-383 added par. (2) and redesignated former par. (2) as (3).

2003—Subsecs. (b), (c). Pub. L. 108-136 added subsec. (b) and redesignated former subsec. (b) as (c).

1999—Pub. L. 106-65 amended section catchline generally. Prior to amendment, catchline read as follows: “Science, mathematics, and engineering education”.

Statutory Notes and Related Subsidiaries

SCIENCE, MATHEMATICS, AND RESEARCH FOR TRANSFORMATION (SMART) DEFENSE SCHOLARSHIP PILOT PROGRAM

Pub. L. 108-375, div. A, title XI, §1105, Oct. 28, 2004, 118 Stat. 2074, as amended by Pub. L. 109-163, div. A, title

X, §1056(d), title XI, §1104(a)–(c), Jan. 6, 2006, 119 Stat. 3440, 3448, 3449; Pub. L. 111-383, div. A, title X, §1075(h)(5), Jan. 7, 2011, 124 Stat. 4377, which related to a pilot program to provide financial assistance for education in science, mathematics, engineering, and technology skills and disciplines that were determined to be critical to the national security functions of the Department of Defense, was repealed and restated in section 2192a of this title by Pub. L. 109-163, div. A, title XI, §1104(d)(1)(B), (e)(1), Jan. 6, 2006, 119 Stat. 3450.

DEPARTMENT OF DEFENSE SUPPORT FOR SCIENCE, MATHEMATICS, AND ENGINEERING EDUCATION

Pub. L. 102-190, div. A, title VIII, §829, Dec. 5, 1991, 105 Stat. 1444, directed Secretary of Defense to develop and submit to Congress a master plan for activities by Department of Defense during each of fiscal years 1993 through 1997 to support education in science, mathematics, and engineering at all levels of education in the United States, with each such plan to be developed in consultation with Secretary of Education, prior to repeal by Pub. L. 104-106, div. A, title X, §1063(c), Feb. 10, 1996, 110 Stat. 444.

[§ 2192a. Renumbered § 4093]

§ 2192b. Program on enhancement of preparation of dependents of members of armed forces for careers in science, technology, engineering, and mathematics

(a) PROGRAM REQUIRED.—The Secretary of Defense shall carry out a program to—

(1) enhance the preparation of students at covered schools for careers in science, technology, engineering, and mathematics; and

(2) provide assistance to teachers at covered schools to enhance preparation described in paragraph (1).

(b) COORDINATION.—In carrying out the program, the Secretary shall coordinate with the following:

(1) The Secretaries of the military departments.

(2) The Secretary of Education.

(3) The National Science Foundation.

(4) Other organizations as the Secretary of Defense considers appropriate.

(c) ACTIVITIES.—Activities under the program may include the following:

(1) Establishment of targeted internships and cooperative research opportunities at defense laboratories and other technical centers for students and teachers at covered schools.

(2) Establishment of scholarships and fellowships for students at covered schools.

(3) Efforts and activities that improve the quality of science, technology, engineering, and mathematics educational and training opportunities for students and teachers at covered schools, including with respect to improving the development of curricula at covered schools.

(4) Development of travel opportunities, demonstrations, mentoring programs, and informal science education for students and teachers at covered schools.

(d) METRICS.—The Secretary shall establish outcome-based metrics and internal and external assessments to evaluate the merits and benefits of activities conducted under the program with respect to the needs of the Department of Defense.