

(Added Pub. L. 101-510, div. A, title II, § 247(a)(1), Nov. 5, 1990, 104 Stat. 1522; amended Pub. L. 103-382, title III, § 391(b)(4), Oct. 20, 1994, 108 Stat. 4021; Pub. L. 104-106, div. A, title XV, § 1503(a)(19), Feb. 10, 1996, 110 Stat. 512; Pub. L. 106-398, § 1 [[div. A], title II, § 253], Oct. 30, 2000, 114 Stat. 1654, 1654A-49; Pub. L. 107-110, title X, § 1076(e), Jan. 8, 2002, 115 Stat. 2091; Pub. L. 108-178, § 4(b)(1), Dec. 15, 2003, 117 Stat. 2640; Pub. L. 111-350, § 5(b)(3), Jan. 4, 2011, 124 Stat. 3842; Pub. L. 111-383, div. A, title II, § 211(b), Jan. 7, 2011, 124 Stat. 4163; Pub. L. 112-239, div. A, title II, § 251, Jan. 2, 2013, 126 Stat. 1688.)

## REFERENCES IN TEXT

Paragraphs (3), (4), and (5) of section 312(b) of the Higher Education Act of 1965 (20 U.S.C. 1058(b)), referred to in subsec. (c), were repealed by Pub. L. 102-325, title III, § 302(a)(3), July 23, 1992, 106 Stat. 472.

## AMENDMENTS

2013—Subsec. (f)(2). Pub. L. 112-239, § 251(b), inserted “(20 U.S.C. 7801)” before period at end.

Subsec. (f)(3). Pub. L. 112-239, § 251(a), added par. (3).

2011—Subsec. (b)(2). Pub. L. 111-350 substituted “division C (except sections 3302, 3501(b), 3509, 3906, 4710, and 4711) of subtitle I of title 41” for “title III of the Federal Property and Administrative Services Act of 1949 (41 U.S.C. 251 et seq.)” in introductory provisions.

Subsecs. (e), (f). Pub. L. 111-383 added subsec. (e) and redesignated former subsec. (e) as (f).

2003—Subsec. (b)(2). Pub. L. 108-178 inserted “subtitle I of title 40 and title III of” before “the Federal” and substituted “(41 U.S.C. 251 et seq.)” for “(40 U.S.C. 471 et seq.)”.

2002—Subsec. (e)(2). Pub. L. 107-110 substituted “section 9101 of the Elementary and Secondary Education Act of 1965” for “section 14101 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 8801)”.

2000—Subsec. (b). Pub. L. 106-398, § 1 [[div. A], title II, § 253(a)(1)], inserted “, and is encouraged to provide,” after “may provide” in introductory provisions.

Subsec. (b)(1). Pub. L. 106-398, § 1 [[div. A], title II, § 253(a)(2)], inserted before semicolon “for any purpose and duration in support of such agreement that the director considers appropriate”.

Subsec. (b)(2). Pub. L. 106-398, § 1 [[div. A], title II, § 253(a)(3)], added par. (2) and struck out former par. (2) which read as follows: “transferring to the institution defense laboratory equipment determined by the director to be surplus;”.

Subsec. (e). Pub. L. 106-398, § 1 [[div. A], title II, § 253(b)], amended subsec. (e) generally. Prior to amendment, subsec. (e) read as follows: “In this section, the term ‘local educational agency’ has the meaning given such term in section 14101 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 8801).”

1996—Subsec. (e). Pub. L. 104-106 substituted “(20 U.S.C. 8801)” for “(20 U.S.C. 2891(12))”.

1994—Subsec. (a). Pub. L. 103-382, § 391(b)(4)(A), substituted “educational agency” for “education agencies”.

Subsec. (e). Pub. L. 103-382, § 394(b)(4)(B)(iii), which directed amendment of subsec. (e) by striking out “(20 U.S.C. 1058(b))” could not be executed because “(20 U.S.C. 1058(b))” does not appear in subsec. (e).

Pub. L. 103-382, § 391(b)(4)(B)(i), (ii), substituted “educational agency” for “education agency” and “section 14101” for “section 1471(12)”.

## EFFECTIVE DATE OF 2003 AMENDMENT

Amendment by Pub. L. 108-178 effective Aug. 21, 2002, see section 5 of Pub. L. 108-178, set out as a note under section 5334 of Title 5, Government Organization and Employees.

## EFFECTIVE DATE OF 2002 AMENDMENT

Amendment by Pub. L. 107-110 effective Jan. 8, 2002, except with respect to certain noncompetitive pro-

grams and competitive programs, see section 5 of Pub. L. 107-110, set out as an Effective Date note under section 6301 of Title 20, Education.

**§ 2195. Department of Defense cooperative education programs**

(a) The Secretary of Defense shall ensure that the director of each defense laboratory establishes, in association with one or more public or private colleges or universities in the United States or one or more consortia of colleges or universities in the United States, cooperative work-education programs for undergraduate and graduate students.

(b) Under a cooperative work-education program established under subsection (a), a director referred to in that subsection may, without regard to any applicable non-statutory limitation on the number of authorized personnel or on the aggregate amount of any personnel cost—

(1) make an offer for participation in the cooperative work-education program directly to a student and appoint such student to an entry-level position of employment in the laboratory of such director;

(2) pay such person a rate of basic pay, not to exceed the maximum rate of pay provided for grade GS-9 under the General Schedule under section 5332 of title 5, that is competitive with compensation levels provided for entry-level positions in similar industry-sponsored cooperative work-education programs;

(3) pay all travel expenses between the college or university in which the student is enrolled and the laboratory concerned for not more than six round trips per year; and

(4) pay all or part of such fees, charges, and costs related to the participation of such student in the cooperative work-education program as tuition, matriculation fees, charges for library and laboratory services, materials, and supplies, and the purchase or rental price of books.

(c) A director of a defense laboratory may—

(1) require a student, as a condition for receiving payments referred to in subsection (b)(4), to enter into a written agreement to continue employment in such defense laboratory for a period of service specified in the agreement; or

(2) make such payments without requiring such an agreement.

(d)(1) The Director of the National Security Agency may provide a qualifying employee of a defense laboratory of that Agency with living quarters at no charge, or at a rate or charge prescribed by the Director by regulation, without regard to section 5911(c) of title 5.

(2) In this subsection, the term “qualifying employee” means a student who is employed at the National Security Agency under—

(A) a Student Educational Employment Program of the Agency conducted under this section or any other provision of law; or

(B) a similar cooperative or summer education program of the Agency that meets the criteria for Federal cooperative or summer education programs prescribed by the Office of Personnel Management.

(Added Pub. L. 101-510, div. A, title II, § 247(a)(1), Nov. 5, 1990, 104 Stat. 1522; amended Pub. L.

108-136, div. A, title IX, §926, Nov. 24, 2003, 117 Stat. 1579.)

AMENDMENTS

2003—Subsec. (d). Pub. L. 108-136 added subsec. (d).

**§ 2196. Manufacturing engineering education: grant program**

(a) ESTABLISHMENT OF GRANT PROGRAM.—(1) The Secretary of Defense shall establish a program under which the Secretary makes grants to support—

(A) the enhancement of existing programs in manufacturing engineering education; or

(B) the establishment of new programs in manufacturing engineering education that meet such requirements.

(2) Grants under this section may be made to institutions of higher education or to consortia of such institutions.

(3) The Secretary shall establish the program in consultation with the Secretary of Education, the Director of the National Science Foundation, and the Director of the Office of Science and Technology Policy.

(b) NEW PROGRAMS IN MANUFACTURING ENGINEERING EDUCATION.—A program in manufacturing engineering education to be established at an institution of higher education may be considered to be a new program for the purpose of subsection (a)(1)(B) regardless of whether the program is to be conducted—

(1) within an existing department in a school of engineering of the institution;

(2) within a manufacturing engineering department to be established separately from the existing departments within such school of engineering; or

(3) within a manufacturing engineering school or center to be established separately from an existing school of engineering of such institution.

(c) MINIMUM NUMBER OF GRANTS FOR NEW PROGRAMS.—Of the total number of grants awarded pursuant to this section, at least one-third shall be awarded for the purpose stated in subsection (a)(1)(B).

(d) GEOGRAPHICAL DISTRIBUTION OF GRANTS.—In awarding grants under this subsection, the Secretary shall, to the maximum extent practicable, avoid geographical concentration of grant awards.

(e) COORDINATION OF GRANT PROGRAM WITH THE NATIONAL SCIENCE FOUNDATION.—The Secretary of Defense and the Director of the National Science Foundation shall enter into an agreement for carrying out the grant program established pursuant to this section. The agreement shall include procedures to ensure that the grant program is fully coordinated with similar existing programs of the National Science Foundation.

(f) COVERED PROGRAMS.—(1) A program of engineering education supported with a grant awarded pursuant to this section shall meet the requirements of this section.

(2) Such a grant may be made for a program of education to be conducted at the undergraduate level, at the graduate level, or at both the undergraduate and graduate levels.

(g) COMPONENTS OF PROGRAM.—The program of education for which such a grant is made shall be a consolidated and integrated multidisciplinary program of education having each of the following components:

(1) Multidisciplinary instruction that encompasses the total manufacturing engineering enterprise and that may include—

(A) manufacturing engineering education and training through classroom activities, laboratory activities, thesis projects, individual or team projects, and visits to industrial facilities, consortia, or centers of excellence in the United States and foreign countries;

(B) faculty development programs;

(C) recruitment of educators highly qualified in manufacturing engineering;

(D) presentation of seminars, workshops, and training for the development of specific research or education skills; and

(E) activities involving interaction between the institution of higher education conducting the program and industry, including programs for visiting scholars or industry executives.

(2) Opportunities for students to obtain work experience in manufacturing through such activities as internships, summer job placements, or cooperative work-study programs.

(3) Faculty and student research that is directly related to, and supportive of, the education of undergraduate or graduate students in advanced manufacturing science and technology because of—

(A) the increased understanding of advanced manufacturing science and technology that is derived from such research; and

(B) the enhanced quality and effectiveness of the instruction that result from that increased understanding.

(h) GRANT PROPOSALS.—The Secretary of Defense, in coordination with the Director of the National Science Foundation, shall solicit from institutions of higher education in the United States (and from consortia of such institutions) proposals for grants to be made pursuant to this section for the support of programs of manufacturing engineering education that are consistent with the purposes of this section.

(i) MERIT COMPETITION.—Applications for grants shall be evaluated on the basis of merit pursuant to competitive procedures prescribed by the Secretary in consultation with the Director of the National Science Foundation.

(j) SELECTION CRITERIA.—The Secretary may select a proposal for the award of a grant pursuant to this section if the proposal, at a minimum, does each of the following:

(1) Contains innovative approaches for improving engineering education in manufacturing technology.

(2) Demonstrates a strong commitment by the proponents to apply the resources necessary to achieve the objectives for which the grant is to be made.

(3) Provides for the conduct of research that supports the instruction to be provided in the proposed program and is likely to improve manufacturing engineering and technology.