

§ 7381b. Laboratory cooperative science centers and other authorized education activities**(a) Activities**

The Secretary is authorized to:

(1) Support research appointments for college and university science and engineering students, and for faculty-student teams, at Department research and development facilities.

(2) Support research appointments for high school science teachers at Department research and development facilities.

(3) Support research apprenticeship appointments at Department research and development facilities for students underrepresented in science and technology careers.

(4) Support research experience programs at Department research and development facilities for nationally selected high school honor students.

(5) Operate mathematics and science education programs for elementary and secondary students at Department research and development facilities.

(6) Establish a museum-based science education program.

(7) Establish collaborative inner-city and rural partnership programs designed to meet the special mathematics and science education needs of students in inner-city and rural areas.

(8) Provide paid administrative leave for employees of the Department or Department research and development facilities who volunteer to interact with schools, colleges, universities, teachers, or students for the purpose of science, mathematics, and engineering education.

(9) Establish a talent pool of volunteer scientists, mathematicians, and engineers who have retired from the Department or Department research and development facilities to serve at schools and school districts for the purpose of (A) assisting teachers, with activities such as experiments, lectures, or the preparation of materials; (B) serving as counselors to students on science, mathematics, and engineering; and (C) otherwise assisting science, mathematics, and engineering classes. The Secretary, acting through Department research and development facilities, shall, wherever possible, identify and match schools and school districts with retired scientists, mathematicians, and engineers.

(10) Establish a Young Americans' Summer Science Camp Program to provide secondary school students with a hands-on science experience as well as exposure to working scientists and career counseling.

(11) Establish a program for mathematics and science teachers to provide teachers serving large numbers of disadvantaged students with new strategies for mathematics and science instruction.

(12) Support graduate students and, through university-based cooperative programs, undergraduate students for the purpose of encouraging more students to pursue scientific and technical careers, with a particular focus on the recruitment of women and minority students.

(13) Establish a prefreshman enrichment program in which middle-school students attend

summer workshops on mathematics, science, and engineering conducted by universities on their campuses.

(14) Support competitive events for students under the supervision of teachers, designed to encourage student interest and knowledge in science and mathematics.

(15) Support competitively-awarded, peer-reviewed programs to promote professional development for mathematics teachers and science teachers who teach in grades from kindergarten through grade 12 at Department research and development facilities.

(16) Support summer internships at Department research and development facilities, for mathematics teachers and science teachers who teach in grades from kindergarten through grade 12.

(17) Sponsor and assist in educational and training activities identified as critical skills needs for future workforce development at Department research and development facilities.

(b) Use of facilities

Any of the activities authorized by subsection (a) may be conducted through Department research and development facilities. The Secretary may designate facilities conducting such education activities as "Laboratory Cooperative Science Centers".

(c) Funding

The Secretary is authorized to accept non-Federal funds to finance education activities described in subsection (a).

(Pub. L. 101-510, div. C, title XXXI, § 3165, Nov. 5, 1990, 104 Stat. 1841; Pub. L. 102-25, title VII, § 704(d), Apr. 6, 1991, 105 Stat. 120; Pub. L. 109-58, title XI, § 1102(b), Aug. 8, 2005, 119 Stat. 938.)

Editorial Notes**AMENDMENTS**

2005—Subsec. (a)(14) to (17). Pub. L. 109-58, which directed amendment of this section by adding pars. (14) to (17) at the end, was executed by making the addition at the end of subsec. (a), to reflect the probable intent of Congress.

1991—Subsec. (a). Pub. L. 102-25, § 704(d)(1), redesignated subpars. (J) to (M) as pars. (10) to (13), respectively.

Subsec. (b). Pub. L. 102-25, § 704(d)(2), inserted "such" before "education activities" in second sentence.

Statutory Notes and Related Subsidiaries**EFFECTIVE DATE OF 1991 AMENDMENT**

Amendment by Pub. L. 102-25 applicable as if included in enactment of Pub. L. 101-510, see section 704(e) of Pub. L. 102-25, set out as a note under section 12321 of Title 10, Armed Forces.

§ 7381c. Education partnerships**(a) Education partnerships**

The Secretary may authorize each Department research and development facility, to the extent practicable and consistent with the provisions of the laboratory's management and operating contract, to enter into education partnership agreements with educational institutions in the United States (including local educational agencies, colleges, and universities) for

the purpose of encouraging and enhancing study in scientific disciplines at all levels of education.

(b) Types of assistance

Under a partnership agreement entered into with an educational institution under subsection (a) and as authorized by the Secretary, a Department research and development facility may provide assistance to the educational institution by—

(1) loaning or transferring equipment to the institution;

(2) transferring to the institution equipment determined by the director of the Department research and development facility to be surplus;

(3) making personnel of Department research and development facilities available to teach science courses or to assist in the development of science courses and materials for the institution;

(4) involving faculty and students of the institution in research programs of Department research and development facilities;

(5) cooperating with the institution in developing a program under which students may be given academic credit for work on research projects of Department research and development facilities;

(6) providing academic and career advice and assistance to students of the institution; and

(7) providing funds to educational institutions to hire personnel to facilitate interactions between local school systems, Department research and development facilities, and corporate and governmental entities.

(Pub. L. 101-510, div. C, title XXXI, §3166, Nov. 5, 1990, 104 Stat. 1843; Pub. L. 109-58, title XI, §1102(c), Aug. 8, 2005, 119 Stat. 938.)

Editorial Notes

AMENDMENTS

2005—Subsec. (b)(1). Pub. L. 109-58, §1102(c)(1), added par. (1) and struck out former par. (1) which read as follows: “loaning equipment to the institution.”

Subsec. (b)(7). Pub. L. 109-58, §1102(c)(2)-(4), added par. (7).

§ 7381c-1. Partnerships with historically Black colleges and universities, Hispanic-serving institutions, and tribal colleges

(a) Definitions

In this section:

(1) Hispanic-serving institution

The term “Hispanic-serving institution” has the meaning given the term in section 1101a(a) of title 20.

(2) Historically Black college or university

The term “historically Black college or university” has the meaning given the term “part B institution” in section 1061 of title 20.

(3) National Laboratory

The term “National Laboratory” has the meaning given the term in section 15801 of this title.

(4) Science facility

The term “science facility” has the meaning given the term “single-purpose research facility” in section 16182 of this title.

(5) Tribal college

The term “tribal college” has the meaning given the term “tribally controlled college or university” in section 1801(a) of title 25.

(b) Education partnership

The Secretary shall require the director of each National Laboratory, and may require the head of any science facility, to increase the participation of historically Black colleges or universities, Hispanic-serving institutions, or tribal colleges in any activity that increases the capacity of the historically Black colleges or universities, Hispanic-serving institutions, or tribal colleges to train personnel in science or engineering.

(c) Activities

An activity described in subsection (b) includes—

(1) collaborative research;

(2) equipment transfer;

(3) training activities carried out at a National Laboratory or science facility; and

(4) mentoring activities carried out at a National Laboratory or science facility.

(d) Report

Not later than 2 years after August 8, 2005, the Secretary shall submit to Congress a report describing the activities carried out under this section.

(Pub. L. 101-510, div. C, title XXXI, §3167, as added Pub. L. 109-58, title XI, §1105(b)(2), Aug. 8, 2005, 119 Stat. 940; amended Pub. L. 110-315, title IX, §941(k)(2)(M), Aug. 14, 2008, 122 Stat. 3467.)

Editorial Notes

PRIOR PROVISIONS

A prior section 3167 of Pub. L. 101-510 was renumbered section 3168 and is classified to section 7381d of this title.

AMENDMENTS

2008—Subsec. (a)(5). Pub. L. 110-315 made technical amendment to reference in original act which appears in text as reference to section 1801(a) of title 25.

§ 7381c-2. Broadening participation for teachers and scientists

(a) In general

The Secretary shall—

(1) expand opportunities to increase the number of highly skilled science, technology, engineering, and mathematics (STEM) professionals working in disciplines relevant to the mission of the Department; and

(2) broaden the recruitment pool to increase participation from Historically Black Colleges or Universities (as defined in section 7381c-3(f) of this title), Hispanic-serving institutions (as defined in that section), Tribal Colleges or Universities (as defined in that section), minority-serving institutions (as defined in that section), institutions in eligible jurisdictions (as defined in that section), emerging research institutions, community colleges, and scientific societies in those disciplines.

(b) Plan

Not later than 1 year after August 9, 2022, the Secretary shall submit to the Committee on