

“(1) consult with the Secretary of Education and the Director of the National Science Foundation regarding activities authorized under subpart B of the Department of Energy Science Education Enhancement Act [this part] (as added by subsection (d)(3)) to improve science and mathematics education; and

“(2) otherwise make available to the Secretary of Education reports associated with programs authorized under that section.”

SUBPART 1—[REPEALED]

AMENDMENTS

2011—Pub. L. 111-358, title IX, §901(c)(1), Jan. 4, 2011, 124 Stat. 4044, struck out heading for subpart 1 “PILOT PROGRAM OF GRANTS TO SPECIALTY SCHOOLS FOR SCIENCE AND MATHEMATICS”.

§ 7381h. Repealed. Pub. L. 111-358, title IX, § 901(a), Jan. 4, 2011, 124 Stat. 4044

Section, Pub. L. 101-510, div. C, title XXXI, §3171, as added Pub. L. 110-69, title V, §5003(d)(3), Aug. 9, 2007, 121 Stat. 603, related to pilot program of grants to specialty schools for science and mathematics.

SUBPART 2—[REPEALED]

AMENDMENTS

2011—Pub. L. 111-358, title IX, §901(c)(1), Jan. 4, 2011, 124 Stat. 4044, struck out heading for subpart 2 “EXPERIENTIAL-BASED LEARNING OPPORTUNITIES”.

§ 7381j. Repealed. Pub. L. 111-358, title IX, § 901(a), Jan. 4, 2011, 124 Stat. 4044

Section, Pub. L. 101-510, div. C, title XXXI, §3175, as added Pub. L. 110-69, title V, §5003(d)(3), Aug. 9, 2007, 121 Stat. 606, related to experiential-based learning opportunities.

SUBPART 3—NATIONAL LABORATORIES CENTERS OF EXCELLENCE IN SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS EDUCATION

§ 7381l. National Laboratories Centers of Excellence in Science, Technology, Engineering, and Mathematics education

(a) Definition of high-need public secondary school

In this section, the term “high-need public secondary school” means a secondary school—

(1) with a high concentration of low-income individuals (as defined in section 6537 of title 20); or

(2) designated with a school locale code of 41, 42, or 43, as determined by the Secretary of Education.

(b) Establishment

The Secretary shall establish at each of the National Laboratories a program to support a Center of Excellence in Science, Technology, Engineering, and Mathematics (referred to in this section as a “Center of Excellence”) in at least 1 high-need public secondary school located in the region served by the National Laboratory to provide assistance in accordance with subsection (f).

(c) Collaboration

(1) In general

To comply with subsection (g), each high-need public secondary school selected as a Center of Excellence and the National Labora-

tory shall form a partnership with a school, department, or program of education at an institution of higher education.

(2) Nonprofit entities

The partnership may include a nonprofit entity with demonstrated experience and effectiveness in science or mathematics, as agreed to by other members of the partnership.

(d) Selection

(1) In general

The Secretary, acting through the Director, shall establish criteria to guide the National Laboratories in selecting the sites for Centers of Excellence.

(2) Process

A National Laboratory shall select a site for a Center of Excellence through an open, widely-publicized, and competitive process.

(e) Goals

The Secretary shall establish goals and performance assessments for each Center of Excellence authorized under subsection (b).

(f) Assistance

Consistent with sections 7381b and 7381c of this title, the Director shall make available necessary assistance for a program established under this section through the use of scientific and engineering staff of a National Laboratory, including the use of staff—

(1) to assist teachers in teaching a course at a Center of Excellence in Science, Technology, Engineering, and Mathematics; and

(2) to use National Laboratory scientific equipment in the teaching of the course.

(g) Special rules

A Center of Excellence in a region shall ensure—

(1) provision of clinical practicum, student teaching, or internship experiences for science, technology, and mathematics teacher candidates as part of the teacher preparation program of the Center of Excellence;

(2) provision of supervision and mentoring for teacher candidates in the teacher preparation program; and

(3) to the maximum extent practicable, provision of professional development for veteran teachers in the public secondary schools in the region.

(h) Evaluation

The Secretary shall consider the results of performance assessments required under subsection (e) in determining the contract award fee of a National Laboratory management and operations contractor.

(i) Plan

The Director shall—

(1) develop an evaluation and accountability plan for the activities funded under this section that objectively measures the impact of the activities; and

(2) disseminate information obtained from those measurements.

(j) No effect on similar programs

Nothing in this section displaces or otherwise affects any similar program being carried out as

of August 9, 2007, at any National Laboratory under any other provision of law.

(Pub. L. 101-510, div. C, title XXXI, § 3181, as added Pub. L. 110-69, title V, § 5003(d)(3), Aug. 9, 2007, 121 Stat. 607.)

SUBPART 4—SUMMER INSTITUTES

§ 7381n. Summer institutes

(a) Definitions

In this section:

(1) Eligible partner

The term “eligible partner” means—

(A) the science, engineering, or mathematics department at an institution of higher education, acting in coordination with a school, department, or program of education at an institution of higher education that provides training for teachers and principals; or

(B) a nonprofit entity with expertise in providing professional development for science, technology, engineering, or mathematics teachers.

(2) Summer institute

The term “summer institute” means an institute, operated during the summer, that—

(A) is hosted by a National Laboratory or an eligible partner;

(B) is operated for a period of not less than 2 weeks;

(C) includes, as a component, a program that provides direct interaction between students and faculty, including personnel of 1 or more National Laboratories who have scientific expertise;

(D) provides for follow-up training, during the academic year, that is conducted in the classroom; and

(E) provides hands-on science, technology, engineering, or mathematics laboratory experience for not less than 2 days.

(b) Summer institute programs authorized

(1) Programs at the National Laboratories

The Secretary, acting through the Director, shall establish or expand programs of summer institutes at each of the National Laboratories to provide additional training to strengthen the science, technology, engineering, and mathematics teaching skills of teachers employed at public schools for kindergarten through grade 12, in accordance with the activities authorized under paragraphs (3) and (4).

(2) Programs with eligible partners

(A) In general

The Secretary, acting through the Director, shall identify and provide assistance as described in subparagraph (C) to eligible partners to establish or expand programs of summer institutes that provide additional training to strengthen the science, technology, engineering, and mathematics teaching skills of teachers employed at public schools for kindergarten through grade 12, in accordance with paragraphs (3) and (4).

(B) Selection criteria

In identifying eligible partners under subparagraph (A), the Secretary shall require that partner institutions describe—

(i) how the partner institution has the capability to administer the program in accordance with this section, which may include a description of any existing programs at the institution of the applicant that are targeted at education of science and mathematics teachers and the number of teachers graduated annually from the programs; and

(ii) how the partner institution will assist the National Laboratory in carrying out the activities described in paragraphs (3) and (4).

(C) Assistance

Consistent with sections 7381b and 7381c of this title, the Director shall make available funds authorized under this section to carry out a program using scientific and engineering staff of the National Laboratories, during which the staff—

(i) assists in providing training to teachers at summer institutes; and

(ii) uses National Laboratory scientific equipment in the training.

(3) Required activities

Funds authorized under this section shall be used for—

(A) creating opportunities for enhanced and ongoing professional development for teachers that improves the science, technology, engineering, and mathematics content knowledge of the teachers;

(B) training to improve the ability of science, technology, engineering, and mathematics teachers to translate content knowledge and recent developments in pedagogy into classroom practice, including training to use curricula that are—

(i) based on scientific research; and

(ii) aligned with challenging State academic content standards;

(C) training on the use and integration of technology in the classrooms; and

(D) supplemental and follow-up professional development activities as described in subsection (a)(2)(D).

(4) Additional uses of funds

Funds authorized under this section may be used for—

(A) training and classroom materials to assist in carrying out paragraph (3);

(B) expenses associated with scientific and engineering staff at the National Laboratories assisting in providing training to teachers at summer institutes;

(C) instruction in the use and integration of data and assessments to inform and instruct classroom practice; and

(D) stipends and travel expenses for teachers participating in the program.

(c) Priority

To the maximum extent practicable, the Director shall ensure that each summer institute program authorized under subsection (b) provides training to—