(2) the conditions of each award to such centers have been fulfilled.

(Pub. L. 100–570, title I, § 109, Oct. 31, 1988, 102 Stat. 2869.)

CODIFICATION

Section was enacted as part of the National Science Foundation Authorization Act of 1988, and not as part of the National Science Foundation Act of 1950 which comprises this chapter.

§ 1862f. Research center consortia

In Foundation programs making grants to research centers, the Director shall encourage the formation of consortia that include research universities, two-year and four-year colleges, and the private sector.

(Pub. L. 100–570, title I, § 110, Oct. 31, 1988, 102 Stat. 2869.)

CODIFICATION

Section was enacted as part of the National Science Foundation Authorization Act of 1988, and not as part of the National Science Foundation Act of 1950 which comprises this chapter.

§ 1862g. Established Program to Stimulate Competitive Research

(a) The Director shall operate a program to stimulate competitive research (known as the ''Established Program to Stimulate Competitive Research''), the purpose of which is to assist those States that—

(1) historically have received relatively little Federal research and development funding; and

(2) have demonstrated a commitment to develop their research bases and improve science and engineering research and education programs at their universities and colleges.

(b) A State which has received an initial award under such Program, whether or not the award was received before or after October 31, 1988, shall be eligible for up to 5 years of additional support under the Program if that State provides assurances of new matching funds and submits an acceptable new plan for using Program funds and matching funds to build the research capabilities of the State.

(Pub. L. 100–570, title I, § 113, Oct. 31, 1988, 102 Stat. 2870; Pub. L. 114–329, title I, § 103(e)(2), Jan. 6, 2017, 130 Stat. 2975.)

CODIFICATION

Section was enacted as part of the National Science Foundation Authorization Act of 1988, and not as part of the National Science Foundation Act of 1950 which comprises this chapter.

AMENDMENTS

2017—Pub. L. 114–329, § 103(e)(2)(A), substituted ''Established'' for ''Experimental'' in section catchline.

Subsec. (a). Pub. L. 114–329, § 103(e)(2)(B), substituted ''a program to stimulate competitive research (known as the 'Established Program to Stimulate Competitive Research')'' for ''an Experimental Program to Stimulate Competitive Research'' in introductory provisions.

Subsec. (b). Pub. L. 114–329, § 103(e)(2)(C), substituted ''the Program'' for ''the program''.

PLANNING GRANTS

Pub. L. 107–368, § 26, Dec. 19, 2002, 116 Stat. 3067, provided that: ''The Director is authorized to accept planning proposals from applicants who are within .075 percentage points of the current eligibility level for the Experimental Program to Stimulate Competitive Research. Such proposals shall be reviewed by the Foundation to determine their merit for support under the Experimental Program to Stimulate Competitive Research or any other appropriate program.''

[For definitions of terms used in section 26 of Pub. L. 107–368, set out above, see section 4 of Pub. L. 107–368, set out as a note under section 1862n of this title.]

§ 1862h. Congressional statement of findings and declaration of purposes respecting scientific and technical education and training

(a) Findings

The Congress finds that—

(1) the position of the United States in the world economy faces great challenges from highly trained foreign competition;

(2) the workforce of the United States must be better prepared for the technologically advanced, competitive, global economy;

(3) the improvement of our work force's productivity and our international economic position depend upon the strengthening of our educational efforts in science, mathematics, and technology, especially at the associate-degree level;

(4) shortages of scientifically and technically trained workers in a wide variety of fields will best be addressed by collaboration among the Nation's associate-degree-granting colleges and private industry to produce skilled, advanced technicians; and

(5) the National Science Foundation's traditional role in developing model curricula, disseminating instructional materials, enhancing faculty development, and stimulating partnerships between educational institutions and industry, makes an enlarged role for the Foundation in scientific and technical education and training particularly appropriate.

(b) Purposes

It is the purpose of sections 1862h to 1862j of this title to—

(1) improve science and technical education at associate-degree-granting colleges;

(2) improve secondary school and postsecondary curricula in mathematics and science;

(3) improve the educational opportunities of postsecondary students by creating comprehensive articulation agreements and planning between 2-year and 4-year institutions; and

(4) promote outreach to secondary schools to improve mathematics and science instruction.

(Pub. L. 102–476, § 2, Oct. 23, 1992, 106 Stat. 2297.)

REFERENCES IN TEXT

Sections 1862h to 1862j of this title, referred to in subsec. (b), was in the original ''this Act'', meaning Pub. L. 102–476, Oct. 23, 1992, 106 Stat. 2297, known as the Scientific and Advanced-Technology Act of 1992, which enacted this section and sections 1862i and 1862j of this title and amended section 1862 of this title. For complete classification of this Act to the Code, see Short Title of 1992 Amendment note set out under section 1861 of this title and Tables.

CODIFICATION

Section was enacted as part of the Scientific and Advanced-Technology Act of 1992, and not as part of the

National Science Foundation Act of 1950 which comprises this chapter.

§ 1862i. Scientific and technical education

(a) National advanced scientific and technical education program

The Director of the National Science Foundation (hereafter in sections 1862h to 1862j of this title referred to as the ''Director'') shall award grants to associate-degree-granting colleges, and consortia thereof, to assist them in providing education in advanced-technology fields, and to improve the quality of their core education courses in science and mathematics. The grant program shall place emphasis on the needs of students who have been in the workforce (including work in the home), and shall be designed to strengthen and expand the scientific and technical education and training capabilities of associate-degree-granting colleges through such methods as—

(1) the development of model instructional programs in advanced-technology fields and in core science and mathematics courses;

(2) the professional development of faculty and instructors, both full- and part-time, who provide instruction in science, mathematics, and advanced-technology fields;

(3) the establishment of innovative partnership arrangements that—

(A) involve associate-degree-granting colleges and other appropriate public and private sector entities;

(B) provide for private sector donations, faculty opportunities to have short-term assignments with industry, sharing of program costs, equipment loans, and the cooperative use of laboratories, plants, and other facilities, and provision for state-of-the-art work experience opportunities for students enrolled in such programs; and

(C) encourage participation of individuals identified in section 1885a or 1885b of this title;

(4) the acquisition of state-of-the-art instrumentation essential to programs designed to prepare and upgrade students in scientific and advanced-technology fields; and

(5) the development and dissemination of instructional materials in support of improving the advanced scientific and technical education and training capabilities of associate-degree-granting colleges, including programs for students who are not pursuing a science degree.

(b) National centers of scientific and technical education

The Director shall award grants for the establishment of centers of excellence, not to exceed 12 in number, among associate-degree-granting colleges. Centers shall meet one or both of the following criteria:

(1) Exceptional instructional programs in advanced-technology fields.

(2) Excellence in undergraduate education in mathematics and science.

The centers shall serve as national and regional clearinghouses and models for the benefit of both colleges and secondary schools, and shall provide seminars and programs to disseminate model curricula and model teaching methods and instructional materials to other associate-degree-granting colleges in the geographic region served by the center.

(c) Articulation partnerships

(1) Partnership grants

(A) The Director shall make grants to eligible partnerships to encourage students to pursue bachelor degrees in mathematics, science, engineering, or technology, and to assist students pursuing bachelor degrees in mathematics, science, engineering, or technology to make the transition from associate-degree-granting colleges to bachelor-degree-granting institutions, through such means as—

(i) examining curricula to ensure that academic credit earned at the associate-degree-granting college is transferable to bachelor-degree-granting institutions;

(ii) informing teachers from the associate-degree-granting college on the specific requirements of courses at the bachelor-degree-granting institution; and

(iii) providing summer educational programs for students from the associate-degree-granting college to encourage such students' subsequent matriculation at bachelor-degree-granting institutions.

(B) Each eligible partnership receiving a grant under this paragraph shall, at a minimum—

(i) counsel students, including students who have been in the workforce (including work in the home), about the requirements and course offerings of the bachelor-degree-granting institution;

(ii) conduct workshops and orientation sessions to ensure that students are familiar with programs, including laboratories and financial aid programs, at the bachelor-degree-granting institution;

(iii) provide students with research experiences at bachelor's-degree-granting institutions participating in the partnership, including stipend support for students participating in summer programs; and

(iv) provide faculty mentors for students participating in activities under clause (iii), including summer salary support for faculty mentors.

Funds used by eligible partnerships to carry out clauses (i) and (ii) shall be from non-Federal sources. In-cash and in-kind resources used by eligible partnerships to carry out clauses (i) and (ii) shall not be considered to be contributions for purposes of applying subsection (i)(3).

(C) Any institution participating in a partnership that receives a grant under this paragraph shall be ineligible to receive assistance under part B of title I of the Higher Education Act of 1965 [20 U.S.C. 1011 et seq.] for the duration of the grant received under this paragraph.

(2) Outreach grants

The Director shall make grants to associate-degree-granting colleges with outstanding