

Technology, Education, and Science Act, and not as part of the National Science Foundation Act of 1950 which comprises this chapter.

DEFINITIONS

For definitions of terms used in this section, see section 7001 of Pub. L. 110-69, set out as a note under section 1862o of this title.

§ 1862o-14. Major research instrumentation

(a) Award amount

The minimum amount of an award under the Major Research Instrumentation program shall be \$100,000. The maximum amount of an award under the program shall be \$4,000,000 except if the total amount appropriated for the program for a fiscal year exceeds \$125,000,000, in which case the maximum amount of an award shall be \$6,000,000.

(b) Use of funds

In addition to the acquisition of instrumentation and equipment, funds made available by awards under the Major Research Instrumentation program may be used to support the operations and maintenance of such instrumentation and equipment.

(c) Cost sharing

(1) In general

An institution of higher education receiving an award under the Major Research Instrumentation program shall provide at least 30 percent of the cost from private or non-Federal sources.

(2) Exceptions

Institutions of higher education that are not Ph.D.-granting institutions are exempt from the cost sharing requirement in paragraph (1), and the Director may reduce or waive the cost sharing requirement for—

(A) institutions—

(i) that are not ranked among the top 100 institutions receiving Federal research and development funding, as documented by the statistical data published by the Foundation; and

(ii) for which the proposed project will make a substantial improvement in the institution's capabilities to conduct leading edge research, to provide research experiences for undergraduate students using leading edge facilities, and to broaden the participation in science and engineering research by individuals identified in section 1885a or 1885b of this title; and

(B) consortia of institutions of higher education that include at least one institution that is not a Ph.D.-granting institution.

(Pub. L. 110-69, title VII, §7036, Aug. 9, 2007, 121 Stat. 714.)

CODIFICATION

Section was enacted as part of the America COMPETES Act, also known as the America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science Act, and not as part of the National Science Foundation Act of 1950 which comprises this chapter.

DEFINITIONS

For definitions of terms used in this section, see section 7001 of Pub. L. 110-69, set out as a note under section 1862o of this title.

§ 1862o-15. Limit on proposals

(a) Policy

For programs supported by the Foundation that require as part of the selection process for awards the submission of preproposals and that also limit the number of preproposals that may be submitted by an institution, the Director shall allow the subsequent submission of a full proposal based on each preproposal that is determined to have merit following the Foundation's merit review process.

(b) Review and assessment of policies

The Board shall review and assess the effects on institutions of higher education of the policies of the Foundation regarding the imposition of limitations on the number of proposals that may be submitted by a single institution for programs supported by the Foundation. The Board shall determine whether current policies are well justified and appropriate for the types of programs that limit the number of proposal submissions. Not later than 1 year after August 9, 2007, the Board shall summarize the Board's findings and any recommendations regarding changes to the current policy on the restriction of proposal submissions in a report to the Committee on Science and Technology of the House of Representatives and to the Committee on Commerce, Science, and Transportation and the Committee on Health, Education, Labor, and Pensions of the Senate.

(Pub. L. 110-69, title VII, §7037, Aug. 9, 2007, 121 Stat. 714.)

CODIFICATION

Section was enacted as part of the America COMPETES Act, also known as the America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science Act, and not as part of the National Science Foundation Act of 1950 which comprises this chapter.

CHANGE OF NAME

Committee on Science and Technology of House of Representatives changed to Committee on Science, Space, and Technology of House of Representatives by House Resolution No. 5, One Hundred Twelfth Congress, Jan. 5, 2011.

DEFINITIONS

For definitions of terms used in this section, see section 7001 of Pub. L. 110-69, set out as a note under section 1862o of this title.

§ 1862p. National Center for Science and Engineering Statistics

(a) Establishment

There is established within the Foundation a National Center for Science and Engineering Statistics that shall serve as a central Federal clearinghouse for the collection, interpretation, analysis, and dissemination of objective data on science, engineering, technology, and research and development.

(b) Duties

In carrying out subsection (a) of this section, the Director, acting through the Center shall—

(1) collect, acquire, analyze, report, and disseminate statistical data related to the

science and engineering enterprise in the United States and other nations that is relevant and useful to practitioners, researchers, policymakers, and the public, including statistical data on—

- (A) research and development trends;
- (B) the science and engineering workforce;
- (C) United States competitiveness in science, engineering, technology, and research and development; and
- (D) the condition and progress of United States STEM education;

(2) support research using the data it collects, and on methodologies in areas related to the work of the Center; and

(3) support the education and training of researchers in the use of large-scale, nationally representative data sets.

(c) Statistical reports

The Director or the National Science Board, acting through the Center, shall issue regular, and as necessary, special statistical reports on topics related to the national and international science and engineering enterprise such as the biennial report required by section 1863(j)(1) of this title on indicators of the state of science and engineering in the United States.

(Pub. L. 111-358, title V, §505, Jan. 4, 2011, 124 Stat. 4007.)

CODIFICATION

Section was enacted as part of the America COMPETES Reauthorization Act of 2010, also known as the America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science Reauthorization Act of 2010, and also as part of the National Science Foundation Authorization Act of 2010, and not as part of the National Science Foundation Act of 1950 which comprises this chapter.

RESEARCH ON EFFICIENCY OF SKILLED TECHNICAL LABOR MARKETS

Pub. L. 115-402, §4, Dec. 31, 2018, 132 Stat. 5346, provided that:

“(a) **EFFICIENCY OF SKILLED TECHNICAL LABOR MARKETS.**—The Director of the National Science Foundation, working through the Directorate of Social, Behavioral & Economic Sciences, in coordination with the Secretary of Labor, shall support research on labor market analysis innovations, data and information sciences, electronic information tools and methodologies, and metrics.

“(b) **SKILLED TECHNICAL WORKFORCE.**—

“(1) **REVIEW.**—The National Center for Science and Engineering Statistics of the National Science Foundation shall consult and coordinate with other relevant Federal statistical agencies, including the Institute of Education Sciences of the Department of Education, and the Committee on Science, Technology, Engineering, and Mathematics Education of the National Science and Technology Council established under section 101 of the America COMPETES [Reauthorization] Act of 2010 (Public Law 111-358) [42 U.S.C. 6621], to explore the feasibility of expanding its surveys to include the collection of objective data on the skilled technical workforce.

“(2) **REPORT.**—Not later than 1 year after the date of enactment of this Act [Dec. 31, 2018], the Director of the National Science Foundation shall submit to Congress a report on the progress made in expanding the National Center for Science and Engineering Statistics surveys to include the skilled technical workforce, including a plan for multi-agency collaboration to improve data collection and reporting of data on the skilled technical workforce.

“(3) **DEFINITION OF SKILLED TECHNICAL WORKFORCE.**—The term “skilled technical workforce” [sic] means workers with high school diplomas and two-year technical training or certifications who employ significant levels of STEM knowledge in their jobs.”

DEFINITIONS

For definition of “STEM” as used in this section, see section 2 of Pub. L. 111-358, set out as a note under section 6621 of this title.

Pub. L. 111-358, title V, §502, Jan. 4, 2011, 124 Stat. 4005, as amended by Pub. L. 114-329, title I, §103(e)(1), Jan. 6, 2017, 130 Stat. 2975, provided that: “In this subtitle [subtitle A (§§501-527) of title V of Pub. L. 111-358, enacting this section and sections 1862p-1 to 1862p-15 of this title, amending sections 1862n-1a, 1862n-5, 1863, and 1869 of this title, and enacting provisions set out as notes under sections 1862p and 1869 of this title]:

“(1) **DIRECTOR.**—The term ‘Director’ means the Director of the National Science Foundation.

“(2) **EPSCoR.**—The term ‘EPSCoR’ means—

“(A) the Established Program to Stimulate Competitive Research established by the Foundation; or

“(B) a program similar to the Established Program to Stimulate Competitive Research at another Federal agency.

“(3) **FOUNDATION.**—The term ‘Foundation’ means the National Science Foundation established under section 2 of the National Science Foundation Act of 1950 (42 U.S.C. 1861).

“(4) **INSTITUTION OF HIGHER EDUCATION.**—The term ‘institution of higher education’ has the meaning given such term in section 101(a) of the Higher Education Act of 1965 (20 U.S.C. 1001(a)).

“(5) **STATE.**—The term ‘State’ means one of the several States, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, or any other territory or possession of the United States.

“(6) **UNITED STATES.**—The term ‘United States’ means the several States, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, and any other territory or possession of the United States.”

§ 1862p-1. National Science Foundation manufacturing research and education

(a) Manufacturing research

The Director shall carry out a program to award merit-reviewed, competitive grants to institutions of higher education to support fundamental research leading to transformative advances in manufacturing technologies, processes, and enterprises that will support United States manufacturing through improved performance, productivity, sustainability, and competitiveness. Research areas may include—

- (1) nanomanufacturing;
- (2) manufacturing and construction machines and equipment, including robotics, automation, and other intelligent systems;
- (3) manufacturing enterprise systems;
- (4) advanced sensing and control techniques;
- (5) materials processing; and
- (6) information technologies for manufacturing, including predictive and real-time models and simulations, and virtual manufacturing.

(b) Manufacturing education

In order to help ensure a well-trained manufacturing workforce, the Director shall award grants to strengthen and expand scientific and technical education and training in advanced