

106TH CONGRESS
2D SESSION

S. 2067

To provide education and training for the information age.

IN THE SENATE OF THE UNITED STATES

FEBRUARY 10, 2000

Mr. FRIST (for himself and Mr. ABRAHAM) introduced the following bill; which was read twice and referred to the Committee on Health, Education, Labor, and Pensions

A BILL

To provide education and training for the information age.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This section may be cited as the “American’s Math
5 and Science Excellence Act”.

6 **SEC. 2. DEFINITIONS.**

7 In this Act:

8 (1) DIRECTOR.—The term “Director” means
9 the Director of the National Science Foundation.

10 (2) ELEMENTARY SCHOOL; SECONDARY
11 SCHOOL.—The terms “elementary school” and “sec-

1 ondary school” have the meanings given the terms
 2 in section 14101 of the Elementary and Secondary
 3 Education Act of 1965.

4 (3) INSTITUTION OF HIGHER EDUCATION.—The
 5 term “institution of higher education” has the same
 6 meaning given it in section 1201(a) of the Higher
 7 Education Act of 1965 (20 U.S.C. 1201(a)).

8 (4) CHARTER SCHOOL.—The term “charter
 9 school” has the same meaning given it in section
 10 10310(g) of the Higher Education Act of 1965 (20
 11 U.S.C. 8060(g)).

12 (5) INTERNSHIP.—The term “internship”
 13 means a program of personal service by an indi-
 14 vidual, other than an employee, for a specified pe-
 15 riod of time under which the service is primarily for
 16 the educational experience of the individual.

17 **SEC. 3. INFORMATION TECHNOLOGY TEACHER TRAINING**
 18 **GRANTS.**

19 (a) GRANTS AUTHORIZED.—The Director, in con-
 20 sultation with the Secretary of Education, is authorized
 21 to award grants, on a competitive basis, to support profes-
 22 sional development in the use of information technology
 23 as it pertains to enhanced student learning for teachers
 24 who teach in elementary schools, secondary schools, or
 25 charter schools.

1 (b) DURATION.—Grants awarded under this
2 section—

3 (1) to individuals shall be awarded for a period
4 of not more than 1 year; and

5 (2) to educational institutions shall be awarded
6 for a period of not more than 3 years.

7 (c) APPLICATIONS.—

8 (1) IN GENERAL.—To receive a grant under
9 this section, an individual, secondary school, or other
10 educational institution shall submit an application to
11 the Director at such time, in such manner, and ac-
12 companied by such information as the Director may
13 require.

14 (2) REQUIREMENTS.—In awarding grants
15 under this section, the Director shall not require ap-
16 plications for the grants to be submitted by com-
17 puter or Internet-based routes, although such appli-
18 cations may be submitted by such routes.

19 (3) USES OF FUNDS.—Grant funds awarded
20 under this section may be used for—

21 (A) substitute teacher pay or teacher sal-
22 ary;

23 (B) fees for attendance at workshops, sem-
24 inars, conferences, classes, or training sessions;

1 (C) developing a compensation system
 2 based on merit that supports teachers who be-
 3 come increasingly expert in subject areas under-
 4 pinning information technology, and dem-
 5 onstrate high levels of teaching performance, re-
 6 sulting from the use of information technology
 7 tools, measured against professional teaching
 8 standards; or

9 (D) other reasonable expenses related to
 10 professional development in information tech-
 11 nology for elementary school, secondary school,
 12 or charter school teachers.

13 (4) RECIPIENTS.—Grants under this subsection
 14 may be awarded to individual elementary school, sec-
 15 ondary school, or charter school teachers, to elemen-
 16 tary schools, secondary schools, or charter schools,
 17 or to organizations supporting professional develop-
 18 ment in information technology areas for elementary
 19 school, secondary school, or charter school teachers.

20 (5) FACTORS.—Among the factors the Director
 21 shall consider in awarding grants under this sub-
 22 section, are the following:

23 (A) Whether the grant will benefit elemen-
 24 tary schools, secondary schools, and charter
 25 schools that are at or below the 25th percentile

1 for academic performance of schools in the re-
2 spective State.

3 (B) Whether matching funds are available
4 for the private sector.

5 (d) AUTHORIZATION OF APPROPRIATIONS.—There
6 are authorized to be appropriated to the National Science
7 Foundation to carry out this section \$25,000,000 for fis-
8 cal year 2001, \$30,000,000 for fiscal year 2002,
9 \$35,000,000 for fiscal year 2003, and \$35,000,000 for fis-
10 cal year 2004.

11 **SEC. 4. TWENTY-FIRST CENTURY WORKFORCE INTERNSHIP**
12 **GRANTS.**

13 (a) GRANTS AUTHORIZED.—The Director, in con-
14 sultation with the Secretary of Education, is authorized
15 to award grants to secondary schools and institutions of
16 higher education to establish student information tech-
17 nology internships.

18 (b) APPLICATIONS.—

19 (1) IN GENERAL.—To receive a grant under
20 this section, an individual, secondary school, or insti-
21 tution of higher education shall submit an applica-
22 tion to the Director at such time, in such manner,
23 and accompanied by such information as the Direc-
24 tor may require.

1 (2) FORM.—In awarding grants under this sec-
2 tion, the Director shall not require applications for
3 the grants to be submitted by computer or Internet-
4 based routes, although such applications may be
5 submitted by such routes.

6 (c) USES OF FUNDS.—Grants awarded under this
7 section may be used for—

8 (1) internships designed to strengthen the
9 science, mathematics, and engineering preparation of
10 technicians for the high-performance workforce; and

11 (2) internships to offer students hands-on op-
12 portunities in the private sector to apply their edu-
13 cation to information technology, manufacturing, or
14 information security.

15 (d) DURATION.—Grants awarded under this section
16 shall be awarded for a period of not more than 3 years.

17 (e) OTHER REQUIREMENTS.—The Director shall en-
18 sure that—

19 (1) any internship assisted by a grant made
20 under this section is conducted at a private sector
21 entity; and

22 (2) matching funds from the private sector are
23 available in an amount equal to the amount of grant
24 funds provided under this subsection.

1 (e) AUTHORIZATION OF APPROPRIATIONS.—There
 2 are authorized to the National Science Foundation to be
 3 appropriated to carry out this section \$15,000,000 for fis-
 4 cal year 2001, \$20,000,000 for fiscal year 2002,
 5 \$25,000,000 for fiscal year 2003, and \$25,000,000 for fis-
 6 cal year 2004.

7 **SEC. 5. INFORMATION TECHNOLOGY STATE SCHOLARSHIP**
 8 **PROGRAM.**

9 (a) IN GENERAL.—The Director of the National
 10 Science Foundation, in consultation with the Secretary of
 11 Education, shall make grants to States to provide supple-
 12 mentary scholarships to students for study leading to a
 13 graduate degree in science, math, engineering, or a related
 14 field. The scholarships shall be awarded by the State high-
 15 er education system, the State scholarship commission, or
 16 an equivalent State entity.

17 (b) ELIGIBILITY.—

18 (1) IN GENERAL.—A scholarship awarded
 19 under subsection (a) may be applied to any tech-
 20 nology-related degree program offered at an accred-
 21 ited institution of higher learning, including a col-
 22 lege, university, community college, or vocational-
 23 training institution.

24 (2) MAXIMUM AMOUNT.—A scholarship award-
 25 ed under subsection (a) may not, when combined

1 with other sources of financial assistance, exceed the
 2 cost of tuition and related expenses of the qualified
 3 degree program of the recipient.

4 (c) MATCHING.—The Director may not make a grant
 5 to a State under subsection (a) unless the State provides
 6 not less than one-half of the cost of the program for which
 7 the grant is provided from State funds.

8 (d) DISTRIBUTION.—The Director may not make a
 9 grant to a State under subsection (a) unless the State pro-
 10 vides assurances that at least two-thirds of the scholar-
 11 ships awarded using grant funds will be awarded to stu-
 12 dents who are members of families with a family income
 13 that is not more than 200 percent of the poverty line.

14 (e) AUTHORIZATION OF APPROPRIATIONS.—There
 15 are authorized to be appropriated to the National Science
 16 Foundation a total of \$50,000,000 for grants under this
 17 section for fiscal years 2001 through 2004.

18 **SEC. 6. TWENTY-FIRST CENTURY TEACHER ENHANCEMENT**
 19 **PROGRAM.**

20 (a) IN GENERAL.—Section 19A of the National Insti-
 21 tute of Standards and Technology Act (15 U.S.C. 278g–
 22 2a) is amended to read as follows:

1 **“SEC. 19A. TEACHER SCIENCE AND TECHNOLOGY EN-**
 2 **HANCEMENT PROGRAM.**

3 “(a) IN GENERAL.—The Director shall establish
 4 within the Institute a Twenty-First Century Teacher En-
 5 hancement Program.

6 “(b) PURPOSE AND GOALS.—The purpose of the pro-
 7 gram established under this section is to provide for pro-
 8 fessional development of mathematics and science teachers
 9 for elementary, middle, and secondary schools. The goals
 10 of the program are to provide—

11 “(1) math and science teaching strategies;

12 “(2) self-confidence in math and science; and

13 “(3) the understanding of math and science and
 14 their impact on commerce and the economy.

15 “(c) FOCUS.—In carrying out the program under this
 16 section, the Director shall focus on the areas of—

17 “(1) scientific measurements;

18 “(2) tests and standards development;

19 “(3) industrial competitiveness and quality;

20 “(4) manufacturing;

21 “(5) technology transfer; and

22 “(6) any other area of expertise of the Institute
 23 that the Director determines to be appropriate.

24 “(d) SELECTION PROCEDURES AND CRITERIA.—The
 25 Director shall develop and issue procedures and selection

1 criteria for participants in the program. Each such partici-
 2 pant shall be a teacher described in subsection (b).

3 “(e) SUMMER PROGRAM.—The program established
 4 under this section shall be conducted on an annual basis
 5 during the summer months, during the period of time
 6 when a majority of elementary, middle, and secondary
 7 schools have not commenced a school year.

8 “(f) STRATEGIES.—The program shall provide for
 9 teachers’ participation in activities at the Institute labora-
 10 tory facilities or shall utilize other means of accomplishing
 11 the goals of the program, which may include use of the
 12 Internet, video conferencing and recording, workshops,
 13 and conferences.”.

14 “(b) AVAILABILITY OF FUNDS.—The following
 15 amounts of funds appropriated to the National Institute
 16 of Standards and Technology shall be used to carry out
 17 the Twenty-First Century Teacher Enhancement Program
 18 under section 19A of the National Institute of Standards
 19 and Technology Act added by subsection (a) of this sec-
 20 tion:

- 21 (1) \$5,000,000 for fiscal year 2001.
- 22 (2) \$5,500,000 for fiscal year 2002.
- 23 (3) \$6,000,000 for fiscal year 2003.
- 24 (4) \$6,500,000 for fiscal year 2004.

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