

113TH CONGRESS
2D SESSION

S. 2167

To establish a grant program for career education in computer science.

IN THE SENATE OF THE UNITED STATES

MARCH 27, 2014

Mrs. GILLIBRAND introduced the following bill; which was read twice and referred to the Committee on Health, Education, Labor, and Pensions

A BILL

To establish a grant program for career education in
computer science.

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 Act may be cited as the “Computer Science Ca-
5 reer Education Act of 2014”.

6 **SEC. 2. DEFINITIONS.**

7 In this Act:

8 (1) ELIGIBLE PARTNERSHIP.—The term “eligi-
9 ble partnership” means a consortium between or
10 among at least 1 local educational agency, at least
11 1 institution of higher education, and representatives

1 of the community, including nonprofit organizations,
 2 local or regional employers (including State agen-
 3 cies) with a documented workforce need in the com-
 4 puter science sector, workforce investment boards or
 5 other entities providing employment services, re-
 6 gional economic development organizations, industry
 7 associations, representatives of labor organizations,
 8 or central labor coalitions, where appropriate, and
 9 parents and students.

10 (2) INSTITUTION OF HIGHER EDUCATION.—The
 11 term “institution of higher education” means—

12 (A) an institution of higher education as
 13 defined in section 101 of the Higher Education
 14 Act of 1965 (20 U.S.C. 1001); or

15 (B) a postsecondary vocational institution
 16 as defined in section 102(c) of the Higher Edu-
 17 cation Act of 1965 (20 U.S.C. 1002(c)).

18 (3) LOCAL EDUCATIONAL AGENCY.—The term
 19 “local educational agency” has the meaning given
 20 the term in section 9101 of the Elementary and Sec-
 21 ondary Education Act of 1965 (20 U.S.C. 7801).

22 (4) SECRETARY.—The term “Secretary” means
 23 the Secretary of Education.

24 (5) STATE EDUCATIONAL AGENCY.—The term
 25 “State educational agency” has the meaning given

1 the term in section 9101 of the Elementary and Sec-
2 ondary Education Act of 1965 (20 U.S.C. 7801).

3 **SEC. 3. ESTABLISHMENT OF GRANT PROGRAM.**

4 (a) IN GENERAL.—From the amounts appropriated
5 to carry out this section, the Secretary shall award grants,
6 on a competitive basis, to eligible partnerships to enable
7 such partnerships to develop and operate a 4- or 6-year
8 computer science career education program.

9 (b) APPLICATION.—

10 (1) IN GENERAL.—Each eligible partnership
11 that desires to receive a grant under this Act shall
12 submit an application to the Secretary at such time,
13 in such manner, and containing such information as
14 the Secretary may require.

15 (2) CONTENT.—Each application submitted
16 under paragraph (1) shall—

17 (A) describe the eligible partners and part-
18 nership, the roles and responsibilities of each
19 partner, and a demonstration of each partner's
20 ability to support the proposed program;

21 (B) describe how the eligible partnership
22 will implement a computer science career edu-
23 cation program, as described in subsection (c);

1 (C) ensure funding under the grant pro-
 2 gram is spent in a coordinated manner with
 3 other local resources;

4 (D) describe the State or local workforce
 5 shortages, as determined by the relevant State
 6 agency in charge of workforce data, in the com-
 7 puter science sector;

8 (E) make information, including career
 9 guidance and advisement resources, available
 10 about the program;

11 (F) ensure non-duplication of the partner-
 12 ship's development of computer science career
 13 education programs;

14 (G) ensure equitable access to the pro-
 15 gram; and

16 (H) demonstrate alignment of the partner-
 17 ship's computer science career education pro-
 18 gram to the State or local computer science sec-
 19 tor.

20 (c) CONTENT OF COMPUTER SCIENCE CAREER EDU-
 21 CATION PROGRAM.—An eligible partnership that receives
 22 a grant under this Act shall use the grant funds to develop
 23 and operate a 4- or 6-year computer science career edu-
 24 cation program that—

1 (1) includes the development of computer
2 science programs for both secondary education and
3 postsecondary education that—

4 (A) are aligned with rigorous computer
5 science standards for kindergarten through
6 grade 12 computer science education;

7 (B) link secondary schools and institutions
8 of higher education through non-duplicative se-
9 quences of courses in computer science career
10 fields, including the investigation of opportuni-
11 ties for secondary students to enroll concur-
12 rently in secondary and postsecondary course-
13 work;

14 (C) use, if appropriate and available, work-
15 based or worksite learning in conjunction with
16 business;

17 (D) use educational technology and dis-
18 tance learning, as appropriate, to involve all of
19 the partners in the eligible partnership more
20 fully in the development and operation of the
21 programs;

22 (E) stay current with the needs, expecta-
23 tions, and methods of business; and

1 (F) create innovative opportunities for stu-
2 dents that lead to student attainment of indus-
3 try-recognized credentials;

4 (2) includes professional development for teach-
5 ers that—

6 (A) is designed to prepare teachers to
7 teach the fundamental concepts of computer
8 science using effective teaching methods for all
9 students;

10 (B) provides for joint training for teachers
11 in the eligible partnership, including between
12 secondary and postsecondary teachers and core
13 academic teachers and career and technical
14 education teachers at both the secondary level
15 and postsecondary level;

16 (C) is designed to ensure that teachers and
17 administrators are aware of current career
18 pathways and the needs and expectations of
19 business and industry;

20 (D) focuses on training postsecondary and
21 secondary education faculty in the use of con-
22 textual and applied curricula and instruction;
23 and

24 (E) if needed, ensures secondary school
25 teachers are qualified to teach postsecondary

1 courses in the secondary school according to ar-
2 ticipation agreements;

3 (3) includes career and academic counseling for
4 the students that—

5 (A) provides information to students re-
6 garding available computer science career edu-
7 cation programs;

8 (B) supports student progress in com-
9 pleting computer science career education pro-
10 grams;

11 (C) provides labor market information on
12 local, State, regional, and national computer
13 science employment opportunities, such as occu-
14 pation demand, education requirements, and ex-
15 pected compensation; and

16 (D) tracks student placement in appro-
17 priate employment, or transfer to an institution
18 of higher education; and

19 (4) provides equal access to the full range of ca-
20 reer education programs, to individuals who are
21 members of underrepresented groups and special
22 populations, including the development of program
23 services appropriate to the needs of special popu-
24 lations.

1 (d) ADDITIONAL AUTHORIZED ACTIVITIES.—An eli-
2 gible partnership that receives a grant under this Act may
3 use the grant funds to—

4 (1) provide for the acquisition of computer
5 equipment, software, and software licenses to di-
6 rectly develop and support a computer science pro-
7 gram;

8 (2) acquire technical assistance from State or
9 local entities that have designed, established, and op-
10 erated career education programs that have effec-
11 tively used educational technology and distance
12 learning in the delivery of curricula and services and
13 in the articulation process; and

14 (3) establish articulation agreements with insti-
15 tutions of higher education, and cooperative agree-
16 ments with labor organizations, or business located
17 inside or outside the State and served by the eligible
18 partnership, especially with regard to using distance
19 learning and educational technology to provide for
20 the delivery of services and programs.

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