

116TH CONGRESS  
1ST SESSION

# H. R. 1592

To direct the Secretary of Education to establish a pilot program to award competitive grants for the integration of cybersecurity education, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

MARCH 7, 2019

Mr. LANGEVIN (for himself and Mr. THOMPSON of Pennsylvania) introduced the following bill; which was referred to the Committee on Education and Labor

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## A BILL

To direct the Secretary of Education to establish a pilot program to award competitive grants for the integration of cybersecurity education, and for other purposes.

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 “Cybersecurity Skills  
5 Integration Act”.

6 **SEC. 2. PURPOSE.**

7 The purpose of this Act is to improve the cybersecu-  
8 rity competencies of the critical infrastructure workforce,  
9 particularly operators of critical infrastructure technology,

1 by developing postsecondary career and technical edu-  
2 cation programs that integrate cybersecurity education.

3 **SEC. 3. CYBERSECURITY EDUCATION GRANTS.**

4 (a) IN GENERAL.—From the amounts made available  
5 to carry out this Act, the Secretary of Education shall,  
6 not later than 1 year after the date of enactment of this  
7 Act, establish a pilot program under which the Secretary  
8 shall award grants, on a competitive basis, to eligible part-  
9 nerships for—

10 (1) the development and implementation of  
11 postsecondary career and technical education pro-  
12 grams that incorporate cybersecurity education and  
13 prepare individuals to meet workforce needs in crit-  
14 ical infrastructure sectors; and

15 (2) the integration of cybersecurity education  
16 into existing postsecondary career and technical edu-  
17 cation programs that prepare individuals to meet  
18 workforce needs in critical infrastructure sectors.

19 (b) CONSULTATION AND COORDINATION.—In award-  
20 ing grants under this Act, the Secretary shall consult with  
21 the Secretary of Labor, the Director of the National Insti-  
22 tute of Standards and Technology, and the Secretary of  
23 Homeland Security, to determine the greatest workforce  
24 needs in critical infrastructure sectors.

1 (c) GRANT AMOUNT.—The amount of any grant  
2 made under this Act shall not exceed \$500,000 in any fis-  
3 cal year.

4 (d) APPLICATIONS.—To be eligible to receive a grant  
5 under this Act, an eligible partnership shall submit an ap-  
6 plication to the Secretary at such time, in such manner,  
7 containing such information as the Secretary may reason-  
8 ably require, and including a description of—

9 (1) the roles and responsibilities of each partner  
10 in the eligible partnership, and each partner’s capac-  
11 ity to support the postsecondary career and technical  
12 education program to be developed and implemented  
13 with funds awarded under this Act, or the postsec-  
14 ondary career and technical education program into  
15 which cybersecurity education will be integrated with  
16 funds awarded under this Act;

17 (2) the critical infrastructure sector or sectors  
18 that such postsecondary career and technical edu-  
19 cation program prepares individuals to enter;

20 (3) the in-demand occupation within such sector  
21 or sectors that such postsecondary career and tech-  
22 nical education program prepares individuals to  
23 enter;

24 (4) the workforce needs of such critical infra-  
25 structure sector or sectors, including cybersecurity

1 workforce needs, and how the postsecondary career  
2 and technical education program will meet such  
3 workforce needs;

4 (5) how the eligible partnership will incorporate  
5 cybersecurity education aligned to the National In-  
6 stitute of Standards and Technology Special Publi-  
7 cation 800–181, “National Initiative for Cybersecu-  
8 rity Workforce Framework”, into such postsec-  
9 ondary career and technical education program;

10 (6) the work-based learning opportunities the  
11 eligible partnership will offer;

12 (7) how such postsecondary career and tech-  
13 nical education program will lead to a recognized  
14 postsecondary credential and employment in the crit-  
15 ical infrastructure sector targeted by the postsec-  
16 ondary career and technical education program;

17 (8) how such postsecondary career and tech-  
18 nical education program will be sustained following  
19 the grant period;

20 (9) how such postsecondary career and tech-  
21 nical education program will promote diversity with-  
22 in the cybersecurity workforce in critical infrastruc-  
23 ture sectors; and

1           (10) any other purpose for which the eligible  
2           partnership intends to use funds awarded under this  
3           Act.

4           (e) REGIONAL DIVERSITY.—When awarding grants  
5           under this Act, the Secretary shall ensure that grants are  
6           awarded to eligible partnerships in different regions.

7           (f) REPORTING REQUIREMENTS.—An eligible part-  
8           nership that receives a grant under this Act shall annually  
9           submit a report to the Secretary that includes—

10           (1) a description of how any funds awarded to  
11           the eligible partnership under this Act have been  
12           used during the period covered by the report;

13           (2) the number of students who have received  
14           a recognized postsecondary credential during such  
15           period from the postsecondary career and technical  
16           education program into which cybersecurity edu-  
17           cation was incorporated using such funds,  
18           disaggregated by the subgroups of students de-  
19           scribed in section 1111(c)(2)(B) of the Elementary  
20           and Secondary Education Act of 1965 (20 U.S.C.  
21           6311(c)(2)(B)) and by each special population; and

22           (3) the percentage of participants in unsub-  
23           sidized employment in an in-demand occupation in a  
24           critical infrastructure sector targeted by the postsec-  
25           ondary career and technical education program after

1 exiting the postsecondary career and technical edu-  
2 cation program.

3 (g) AUTHORIZATION OF APPROPRIATIONS.—There  
4 are authorized to be appropriated to the Secretary to carry  
5 out this Act \$10,000,000.

6 (h) DEFINITIONS.—In this Act:

7 (1) CRITICAL INFRASTRUCTURE.—The term  
8 “critical infrastructure” has the meaning given the  
9 term in section 1016(e) of the USA PATRIOT Act  
10 (42 U.S.C. 5195c(e)).

11 (2) CYBERSECURITY EDUCATION.—The term  
12 “cybersecurity education” shall mean education  
13 about ensuring the confidentiality, integrity, avail-  
14 ability, and safety of information systems used in  
15 critical infrastructure sectors, including control sys-  
16 tems and operational technology.

17 (3) ELIGIBLE PARTNERSHIP.—

18 (A) REQUIRED PARTNERS.—The term “eli-  
19 gible partnership” means a partnership that in-  
20 cludes—

21 (i) a postsecondary educational insti-  
22 tution; and

23 (ii) 2 or more public or private em-  
24 ployers, in a critical infrastructure sector,  
25 with demonstrated cybersecurity workforce

1 needs, that is located in the region where  
2 the postsecondary career and technical  
3 education program will be developed and  
4 implemented with funds awarded under  
5 this Act.

6 (B) OPTIONAL PARTNERS.—The partner-  
7 ship may also include one or more—

8 (i) community stakeholders (such as  
9 local governments, nonprofit institutions,  
10 economic development organizations, plan-  
11 ning agencies, labor organizations, or in-  
12 dustry associations);

13 (ii) local educational agencies (as the  
14 term is defined in section 8101 of the Ele-  
15 mentary and Secondary Education Act of  
16 1965 (20 U.S.C. 7801)); and

17 (iii) eligible agencies that are located  
18 in the region where the postsecondary ca-  
19 reer and technical education program will  
20 be developed and implemented with funds  
21 awarded under this Act.

22 (4) ELIGIBLE AGENCY.—The term “eligible  
23 agency” means a State board designated or created  
24 consistent with State law as the sole State agency  
25 responsible for the administration of career and

1 technical education in the State or for the super-  
2 vision of the administration of career and technical  
3 education in the State.

4 (5) IN-DEMAND INDUSTRY SECTOR OR OCCUPA-  
5 TION.—The term “in-demand industry sector or oc-  
6 cupation” has the meaning given the term in section  
7 3 of the Workforce Innovation and Opportunity Act  
8 (29 U.S.C. 3102).

9 (6) POSTSECONDARY EDUCATIONAL INSTITU-  
10 TION.—The term “postsecondary educational institu-  
11 tion” means—

12 (A) an institution of higher education (de-  
13 fined in section 101 of the Higher Education  
14 Act of 1965 (20 U.S.C. 1001)) that provides  
15 not less than a 2-year program of instruction  
16 that is acceptable for credit toward an associ-  
17 ate’s or bachelor’s degree;

18 (B) a tribally controlled college or univer-  
19 sity (defined in section 2(a)(4) of the Tribally  
20 Controlled Colleges and Universities Assistance  
21 Act of 1978 (25 U.S.C. 1801(a)(4))); or

22 (C) a nonprofit educational institution of-  
23 fering certificate or other skilled training pro-  
24 grams at the postsecondary level.



1           (7) POSTSECONDARY CAREER AND TECHNICAL  
2 EDUCATION PROGRAM.—The term “postsecondary  
3 career and technical education program” means a  
4 coordinated, nonduplicative sequence of academic  
5 and technical content at the postsecondary level  
6 that—

7           (A) addresses both academic and technical  
8 knowledge and skills, including employability  
9 skills;

10           (B) is aligned with the needs of industries  
11 in the economy of the State, region, Tribal com-  
12 munity, or local area;

13           (C) progresses in specificity (beginning  
14 with all aspects of an industry or career cluster  
15 and leading to more occupation-specific instruc-  
16 tion);

17           (D) has multiple entry and exit points that  
18 incorporate credentialing; and

19           (E) culminates in the attainment of a rec-  
20 ognized postsecondary credential.

21           (8) SECRETARY.—The term “Secretary” means  
22 the Secretary of Education.

23           (9) WORK BASED LEARNING.—The term “work  
24 based learning” means sustained interactions with  
25 industry or community professionals in real work-

1 place settings, to the extent practicable, or simulated  
2 environments at an educational institution that fos-  
3 ter in-depth, firsthand engagement with the tasks  
4 required in a given career field, that are aligned to  
5 curriculum and instruction.

6 (10) RECOGNIZED POSTSECONDARY CREDEN-  
7 TIAL.—The term “recognized postsecondary creden-  
8 tial” has the meaning given the term in section 3 of  
9 the Workforce Innovation and Opportunity Act (29  
10 U.S.C. 3102).

11 (11) SPECIAL POPULATIONS.—The term “spe-  
12 cial populations” means—

13 (A) individuals with disabilities;

14 (B) individuals from economically dis-  
15 advantaged families, including low-income youth  
16 and adults;

17 (C) individuals preparing for non-tradi-  
18 tional fields;

19 (D) single parents, including single preg-  
20 nant women;

21 (E) out-of-workforce individuals;

22 (F) English learners;

23 (G) homeless individuals described in sec-  
24 tion 11434a of title 42, United States Code;

1           (H) youth who are in, or have aged out of,  
2           the foster care system; and

3           (I) youth with a parent who—

4                 (i) is a member of the armed forces  
5                 (as such term is defined in section  
6                 101(a)(4) of title 10, United States Code);  
7                 and

8                 (ii) is on active duty (as such term is  
9                 defined in section 101(d)(1) of such title).

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