

116TH CONGRESS  
2D SESSION

# S. 4195

To authorize the Cybersecurity Education Training Assistance Program.

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IN THE SENATE OF THE UNITED STATES

JULY 2, 2020

Ms. ROSEN (for herself and Mr. CASSIDY) introduced the following bill; which was read twice and referred to the Committee on Homeland Security and Governmental Affairs

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## A BILL

To authorize the Cybersecurity Education Training Assistance Program.

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 “Providing Resources  
5 for Ongoing Training and Education in Cyber Tech-  
6 nologies Act of 2020” or the “PROTECT Act of 2020”.

7 **SEC. 2. CYBERSECURITY EDUCATION AND TRAINING AS-**  
8 **SISTANCE PROGRAM.**

9 (a) SENSE OF CONGRESS.—It is the sense of Con-  
10 gress that—

1           (1) the United States continues to face critical  
2 shortages in the national cybersecurity workforce;

3           (2) the Cybersecurity and Infrastructure Secu-  
4 rity Agency within the Department of Homeland Se-  
5 curity has the responsibility to manage cyber and  
6 physical risks to our critical infrastructure, including  
7 by ensuring a national workforce supply to support  
8 cybersecurity through education, training, and ca-  
9 pacity development efforts;

10          (3) to reestablish the technology leadership, se-  
11 curity, and economic competitiveness of the United  
12 States, the Cybersecurity and Infrastructure Secu-  
13 rity Agency should create a sustainable pipeline by  
14 strengthening elementary and secondary cybersecu-  
15 rity outreach and education nationwide.

16          (b) AUTHORITIES.—Section 2202(e)(1) of the Home-  
17 land Security Act of 2002 (6 U.S.C. 652(e)(1)) is amend-  
18 ed by adding at the end the following:

19                   “(R) To encourage and build cybersecurity  
20 awareness and competency across the United  
21 States and to develop, attract, and retain the  
22 cybersecurity workforce necessary for the cyber-  
23 security related missions of the Department, in-  
24 cluding by—

1 “(i) overseeing elementary and sec-  
2 ondary cybersecurity education and aware-  
3 ness related programs at the Department;

4 “(ii) leading efforts to develop, at-  
5 tract, and retain the cybersecurity work-  
6 force necessary for the cybersecurity re-  
7 lated missions of the Department;

8 “(iii) encouraging and building cyber-  
9 security awareness and competency across  
10 the United States; and

11 “(iv) carrying out cybersecurity re-  
12 lated workforce development activities, in-  
13 cluding through—

14 “(I) increasing the pipeline of fu-  
15 ture cybersecurity professionals  
16 through programs focused on elemen-  
17 tary and secondary education, higher  
18 education, and underrepresented stu-  
19 dents in science and engineering, in-  
20 cluding women and racial and ethnic  
21 minorities; and

22 “(II) building awareness of and  
23 competency in cybersecurity across  
24 the civilian Federal government work-  
25 force.”.

1 (c) EDUCATION, TRAINING, AND CAPACITY DEVELOPMENT.—Section 2202(c) of the Homeland Security Act  
2 of 2002 (6 U.S.C. 652(c)) is amended—  
3

4 (1) by redesignating paragraph (11) as paragraph (12);  
5

6 (2) in paragraph (10), by striking “and” at the  
7 end; and

8 (3) by inserting after paragraph (10) the following:  
9

10 “(11) provide education, training, and capacity  
11 development for Federal and non-Federal entities to  
12 enhance the security and resiliency of domestic and  
13 global cybersecurity and infrastructure security;  
14 and”.

15 (d) ESTABLISHMENT OF TRAINING PROGRAMS.—  
16 Subtitle A of title XXII of the Homeland Security Act of  
17 2002 (6 U.S.C. 651 et seq.) is amended by adding at the  
18 end the following:

19 **“SEC. 2215. CYBERSECURITY EDUCATION AND TRAINING**  
20 **PROGRAMS.**

21 “(a) ESTABLISHMENT.—

22 “(1) IN GENERAL.—The Cybersecurity Education and Training Assistance Program (referred to  
23 in this section as ‘CETAP’) is established within the  
24 Agency.  
25

1           “(2) PURPOSE.—The purpose of CETAP shall  
2           be to support the effort of the Agency in building  
3           and strengthening a national cybersecurity workforce  
4           pipeline capacity through supporting elementary and  
5           secondary cybersecurity education, including by—

6                   “(A) providing foundational cybersecurity  
7                   awareness and literacy;

8                   “(B) encouraging cybersecurity career ex-  
9                   ploration; and

10                   “(C) supporting the teaching of cybersecu-  
11                   rity skills in elementary and secondary schools.

12           “(b) REQUIREMENTS.—In carrying out CETAP, the  
13 Director shall—

14                   “(1) implement a program that—

15                           “(A) conducts professional development  
16                           sessions for educators in elementary and sec-  
17                           ondary schools;

18                           “(B) develops resources for the teaching of  
19                           elementary and secondary education cybersecu-  
20                           rity-focused curricula;

21                           “(C) provides direct student engagement  
22                           opportunities through camps and other pro-  
23                           gramming;

1           “(D) engages with local educational agen-  
2           cies and State education agencies to promote  
3           awareness of the program;

4           “(E) integrates with existing post-sec-  
5           ondary education and workforce development  
6           programs at the Department;

7           “(F) partners with cybersecurity and edu-  
8           cation stakeholder groups to expand outreach; a

9           “(G) increases the participation of women  
10          or racial and ethnic minorities underrepresented  
11          in science and engineering, or both, in cyberse-  
12          curity education activities; and

13          “(H) any other activity the Director deter-  
14          mines necessary to meet the purpose described  
15          in subsection (a)(2); and

16          “(2) enable the deployment of CETAP nation-  
17          wide.

18          “(c) BRIEFINGS.—

19                 “(1) IN GENERAL.—Not later than 1 year after  
20                 the establishment of CETAP, and annually there-  
21                 after, the Secretary shall brief the Committee on  
22                 Homeland Security and Governmental Affairs of the  
23                 Senate and the Committee on Homeland Security of  
24                 the House of Representatives on the program.

1           “(2) CONTENTS.—Each briefing conducted  
2 under paragraph (1) shall include—

3           “(A) estimated figures on the number of  
4 students reached and educators engaged, in-  
5 cluding underrepresented students in science  
6 and engineering, including women and racial  
7 and ethnic minorities;

8           “(B) information on community outreach  
9 and State engagement efforts;

10          “(C) information on new curricula offer-  
11 ings and educator professional development  
12 platforms; and

13          “(D) information on coordination with  
14 post-secondary education and workforce devel-  
15 opment programs at the Department.

16          “(d) MISSION PROMOTION.—The Director may use  
17 appropriated amounts to purchase promotional and rec-  
18 ognition items and marketing and advertising services to  
19 publicize and promote the mission and services of the  
20 Agency, support the activities of the Agency, and to re-  
21 cruit and retain Agency personnel.

22          “(e) DEFINITIONS.—The terms ‘elementary school’,  
23 ‘local educational agency’, ‘professional development’, ‘sec-  
24 ondary school’, and ‘State educational agency’ have the  
25 meaning given the terms in section 8101 of the Elemen-

1 tary and Secondary Education Act of 1965 (20 U.S.C.  
2 7801).”.

3 (e) TECHNICAL AND CONFORMING AMENDMENT.—

4 The table of contents in section 1(b) of the Homeland Se-  
5 curity Act of 2002 (Public Law 107–296; 116 Stat. 2135)

6 is amended by inserting after the item relating to section

7 2214 the following:

“Sec. 2215. Cybersecurity Education and Training Programs.”.

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