



AMENDMENT NO. _____ Calendar No. _____

Purpose: In the nature of a substitute.

IN THE SENATE OF THE UNITED STATES—115th Cong., 2d Sess.

H. R. 4323

To promote veteran involvement in STEM education, computer science, and scientific research, and for other purposes.

Referred to the Committee on _____ and ordered to be printed

Ordered to lie on the table and to be printed

AMENDMENT IN THE NATURE OF A SUBSTITUTE intended to be proposed by Mr. THUNE

Viz:

1 Strike all after the enacting clause and insert the fol-

2 lowing:

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Supporting Veterans

5 in STEM Careers 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) FOUNDATION.—The term “Foundation”

11 means the National Science Foundation.

1 (3) STEM.—The term “STEM” has the mean-
2 ing given the term in section 2 of the America COM-
3 PETES Reauthorization Act of 2010 (42 U.S.C.
4 6621 note).

5 (4) VETERAN.—The term “veteran” has the
6 meaning given the term in section 101 of title 38,
7 United States Code.

8 **SEC. 3. SUPPORTING VETERANS IN STEM EDUCATION AND**
9 **COMPUTER SCIENCE.**

10 (a) SUPPORTING VETERAN INVOLVEMENT IN SCI-
11 ENTIFIC RESEARCH AND STEM EDUCATION.—The Di-
12 rector shall, through the research and education activities
13 of the Foundation, encourage veterans to study and pur-
14 sue careers in STEM and computer science, in coordina-
15 tion with other Federal agencies that serve veterans.

16 (b) VETERAN OUTREACH PLAN.—Not later than 180
17 days after the date of enactment of this Act, the Director
18 shall submit to the Committee on Science, Space, and
19 Technology of the House of Representatives and the Com-
20 mittee on Commerce, Science, and Transportation of the
21 Senate a plan for how the Foundation can enhance its out-
22 reach efforts to veterans. Such plan shall—

23 (1) report on the Foundation’s existing out-
24 reach activities;

1 (2) identify the best method for the Foundation
2 to leverage existing authorities and programs to fa-
3 cilitate and support veterans in STEM careers and
4 studies, including teaching programs;

5 (3) include options for how the Foundation will,
6 to the extent practicable, track veteran participation
7 in research and education programs of the Founda-
8 tion; and

9 (4) describe any barriers to collecting the infor-
10 mation described in paragraph (3).

11 (c) NATIONAL SCIENCE BOARD INDICATORS RE-
12 PORT.—The National Science Board shall provide in its
13 annual report on indicators of the state of science and en-
14 gineering in the United States any available and relevant
15 data on veterans in science and engineering careers or
16 education programs.

17 (d) ROBERT NOYCE TEACHER SCHOLARSHIP PRO-
18 GRAM UPDATE.—Section 10 of the National Science
19 Foundation Authorization Act of 2002 (42 U.S.C. 1862n-
20 1) is amended—

21 (1) in subsection (a)(5)—

22 (A) in subparagraph (A), by striking
23 “and” at the end;

24 (B) in subparagraph (B), by striking the
25 period at the end and inserting “; and”; and

1 (C) by adding at the end the following:

2 “(C) higher education programs that serve
3 or support veterans.”; and

4 (2) in subsection (b)(2)(F)—

5 (A) by striking “and students” and insert-
6 ing “, students”; and

7 (B) by inserting “, and veterans” before
8 the period at the end.

9 (e) NATIONAL SCIENCE FOUNDATION TEACHING
10 FELLOWSHIPS AND MASTER TEACHING FELLOWSHIPS
11 UPDATE.—Section 10A(d) of the National Science Foun-
12 dation Authorization Act of 2002 (42 U.S.C. 1862n-
13 1a(d)) is amended—

14 (1) in paragraph (3)(F)—

15 (A) by striking “and individuals” and in-
16 serting “, individuals”; and

17 (B) by inserting “, and veterans” before
18 the period at the end; and

19 (2) in paragraph (4)(B), by inserting “and vet-
20 erans” before the period at the end.

21 (f) NATIONAL SCIENCE FOUNDATION COMPUTER
22 AND NETWORK SECURITY CAPACITY BUILDING GRANTS
23 UPDATE.—Section 5(a) of the Cyber Security Research
24 and Development Act (15 U.S.C. 7404(a)) is amended—

1 (1) in paragraph (1), by inserting “and stu-
2 dents who are veterans” after “these fields”; and

3 (2) in paragraph (3)—

4 (A) in subparagraph (I), by striking “and”
5 at the end;

6 (B) by redesignating subparagraph (J) as
7 subparagraph (K); and

8 (C) by inserting after subparagraph (I) the
9 following:

10 “(J) creating opportunities for veterans to
11 transition to careers in computer and network
12 security; and”.

13 (g) GRADUATE TRAINEESHIPS IN COMPUTER AND
14 NETWORK SECURITY RESEARCH UPDATE.—Section
15 5(c)(6)(C) of the Cyber Security Research and Develop-
16 ment Act (15 U.S.C. 7404(c)(6)(C)) is amended by insert-
17 ing “or veterans” after “disciplines”.

18 (h) VETERANS AND MILITARY FAMILIES STEM
19 EDUCATION INTERAGENCY WORKING GROUP.—

20 (1) IN GENERAL.—The Director of the Office of
21 Science and Technology Policy shall establish or des-
22 ignate an interagency working group to coordinate
23 Federal programs and policies for transitioning and
24 training veterans and military spouses for STEM ca-
25 reers.

1 (2) DUTIES OF INTERAGENCY WORKING
2 GROUP.—The interagency working group under
3 paragraph (1) shall—

4 (A) coordinate any Federal agency STEM
5 outreach activities and programs for veterans
6 and military spouses; and

7 (B) develop and facilitate the implementa-
8 tion by participating agencies of a strategic
9 plan, which shall—

10 (i) specify and prioritize short- and
11 long-term objectives;

12 (ii) specify the common metrics that
13 will be used by Federal agencies to assess
14 progress toward achieving such objectives;

15 (iii) identify barriers veterans face in
16 reentering the workforce, including a lack
17 of formal STEM education, career guid-
18 ance, and the process of transferring mili-
19 tary credits and skills to college credits;

20 (iv) identify barriers military spouses
21 face in establishing careers in STEM
22 fields;

23 (v) describe the approaches that each
24 participating agency will take to address

1 administratively the barriers described in
2 clauses (iii) and (iv); and

3 (vi) identify any barriers that require
4 Federal or State legislative or regulatory
5 changes in order to be addressed.

6 (3) DUTIES OF OSTP.—The Director of the Of-
7 fice of Science and Technology Policy shall encour-
8 age and monitor the efforts of the Federal agencies
9 participating in the interagency working group to
10 ensure that the strategic plan required under para-
11 graph (2)(B) is developed and executed effectively
12 and that the objectives of such strategic plan are
13 met.

14 (4) REPORT.—The Director of the Office of
15 Science and Technology Policy shall—

16 (A) not later than 1 year after the date of
17 enactment of this Act, submit to Congress the
18 strategic plan required under paragraph (2)(B);
19 and

20 (B) include in the annual report required
21 by section 101(d) of the America COMPETES
22 Reauthorization Act a description of any
23 progress made in carrying out the activities de-
24 scribed in paragraph (2)(B) of this subsection.

1 (5) SUNSET.—The interagency working group
2 under paragraph (1) shall terminate on the date
3 that is 5 years after the date that it is established.