

113TH CONGRESS
2D SESSION

H. R. 5031

AN ACT

To define STEM education to include computer science, and
to support existing STEM education programs at the
National Science Foundation.

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

1 **SECTION 1. SHORT TITLE.**

2 This Act may be cited as the “STEM Education Act
3 of 2014”.

4 **SEC. 2. DEFINITION OF STEM EDUCATION.**

5 For purposes of carrying out STEM education activi-
6 ties at the National Science Foundation, the Department
7 of Energy, the National Aeronautics and Space Adminis-
8 tration, the National Oceanic and Atmospheric Adminis-
9 tration, the National Institute of Standards and Tech-
10 nology, and the Environmental Protection Agency, the
11 term “STEM education” means education in the subjects
12 of science, technology, engineering, and mathematics, in-
13 cluding other academic subjects that build on these dis-
14 ciplines such as computer science.

15 **SEC. 3. INFORMAL STEM EDUCATION.**

16 (a) GRANTS.—The Director of the National Science
17 Foundation, through the Directorate for Education and
18 Human Resources, shall continue to award competitive,
19 merit-reviewed grants to support—

- 20 (1) research and development of innovative out-
21 of-school STEM learning and emerging STEM
22 learning environments in order to improve STEM
23 learning outcomes and engagement in STEM; and
24 (2) research that advances the field of informal
25 STEM education.

1 (b) USES OF FUNDS.—Activities supported by grants
2 under this section may encompass a single STEM dis-
3 cipline, multiple STEM disciplines, or integrative STEM
4 initiatives and shall include—

5 (1) research and development that improves our
6 understanding of learning and engagement in infor-
7 mal environments, including the role of informal en-
8 vironments in broadening participation in STEM;
9 and

10 (2) design and testing of innovative STEM
11 learning models, programs, and other resources for
12 informal learning environments to improve STEM
13 learning outcomes and increase engagement for K–
14 12 students, K–12 teachers, and the general public,
15 including design and testing of the scalability of
16 models, programs, and other resources.

17 **SEC. 4. NOYCE SCHOLARSHIP PROGRAM AMENDMENTS.**

18 (a) AMENDMENTS.—Section 10A of the National
19 Science Foundation Authorization Act of 2002 (42 U.S.C.
20 1862n–1a) is amended—

21 (1) in subsection (a)(2)(B), by inserting “or
22 bachelor’s” after “master’s”;

23 (2) in subsection (c)—

24 (A) by striking “and” at the end of para-
25 graph (2)(B);

1 (B) in paragraph (3)—

2 (i) by inserting “for teachers with
3 master’s degrees in their field” after
4 “Teaching Fellowships”; and

5 (ii) by striking the period at the end
6 of subparagraph (B) and inserting “;
7 and”; and

8 (C) by adding at the end the following new
9 paragraph:

10 “(4) in the case of National Science Foundation
11 Master Teaching Fellowships for teachers with bach-
12 elor’s degrees in their field and working toward a
13 master’s degree—

14 “(A) offering academic courses leading to
15 a master’s degree and leadership training to
16 prepare individuals to become master teachers
17 in elementary and secondary schools; and

18 “(B) offering programs both during and
19 after matriculation in the program for which
20 the fellowship is received to enable fellows to
21 become highly effective mathematics and
22 science teachers, including mentoring, training,
23 induction, and professional development activi-
24 ties, to fulfill the service requirements of this
25 section, including the requirements of sub-

1 section (e), and to exchange ideas with others
 2 in their fields.”;

3 (3) in subsection (e), by striking “subsection
 4 (g)” and inserting “subsection (h)”;

5 (4) by redesignating subsections (g) through (i)
 6 as subsections (h) through (j), respectively; and

7 (5) by inserting after subsection (f) the fol-
 8 lowing new subsection:

9 “(g) SUPPORT FOR MASTER TEACHING FELLOWS
 10 WHILE ENROLLED IN A MASTER’S DEGREE PROGRAM.—
 11 A National Science Foundation Master Teacher Fellow
 12 may receive a maximum of 1 year of fellowship support
 13 while enrolled in a master’s degree program as described
 14 in subsection (c)(4)(A), except that if such fellow is en-
 15 rolled in a part-time program, such amount shall be pro-
 16 rated according to the length of the program.”.

17 (b) DEFINITION.—Section 10(i)(5) of the National
 18 Science Foundation Authorization Act of 2002 (42 U.S.C.
 19 1862n–1(i)(5)) is amended by inserting “computer
 20 science,” after “means a science,”.

Passed the House of Representatives July 14, 2014.

Attest:

Clerk.

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