

AMENDMENT NO. \_\_\_\_\_ Calendar No. \_\_\_\_\_

Purpose: To amend title II in order to improve student academic achievement in science, technology, engineering, and mathematics subjects.

**IN THE SENATE OF THE UNITED STATES—114th Cong., 1st Sess.**

**S.** \_\_\_\_\_

To reauthorize the Elementary and Secondary Education Act of 1965 to ensure that every child achieves.

Referred to the Committee on \_\_\_\_\_ and  
ordered to be printed

Ordered to lie on the table and to be printed

AMENDMENTS intended to be proposed by Mr. FRANKEN  
(for himself, Mr. KIRK, and Mrs. MURRAY)

Viz:

1        On page 225, between lines 6 and 7, insert the fol-  
2        lowing:

3        “(f) STEM INSTRUCTION AND STUDENT ACHIEVE-  
4        MENT.—For the purposes of carrying out part E, there  
5        are authorized to be appropriated such sums as may be  
6        necessary for each of fiscal years 2016 through 2021.

7        On page 314, between lines 2 and 3, insert the fol-  
8        lowing:

1 **SEC. 2004A. IMPROVING SCIENCE, TECHNOLOGY, ENGI-**  
2 **NEERING, AND MATHEMATICS INSTRUCTION**  
3 **AND STUDENT ACHIEVEMENT.**

4 Title II (20 U.S.C. 6601 et seq.), as amended by sec-  
5 tion 2004, is further amended by adding at the end the  
6 following:

7 **“PART E—IMPROVING SCIENCE, TECHNOLOGY,**  
8 **ENGINEERING, AND MATHEMATICS IN-**  
9 **STRUCTION AND STUDENT ACHIEVEMENT**

10 **“SEC. 2501. PURPOSE.**

11 “The purpose of this part is to improve student aca-  
12 demic achievement in science, technology, engineering, and  
13 mathematics, including computer science, by—

14 “(1) improving instruction in such subjects  
15 through grade 12;

16 “(2) improving student engagement in, and in-  
17 creasing student access to, such subjects;

18 “(3) improving the quality and effectiveness of  
19 classroom instruction by recruiting, training, and  
20 supporting highly rated teachers and providing ro-  
21 bust tools and supports for students and teachers in  
22 such subjects; and

23 “(4) closing student achievement gaps, and pre-  
24 paring more students to be college and career ready,  
25 in such subjects.

1 **“SEC. 2502. DEFINITIONS.**

2 “In this part:

3 “(1) ELIGIBLE SUBGRANTEE.—The term ‘eligi-  
4 ble subgrantee’ means—

5 “(A) a high-need local educational agency;

6 “(B) an educational service agency serving  
7 more than 1 high-need local educational agency;

8 “(C) a consortium of high-need local edu-  
9 cational agencies; or

10 “(D) an entity described in subparagraph  
11 (A) or (C) of paragraph (3) that has signed a  
12 memorandum of agreement with an entity de-  
13 scribed in subparagraph (A), (B), or (C) of this  
14 paragraph to implement the requirements of  
15 this part in partnership with such entity.

16 “(2) OUTSIDE PARTNER.—The term ‘outside  
17 partner’ means an entity that has expertise and a  
18 demonstrated record of success in improving student  
19 learning and engagement in the identified subjects  
20 described in section 2504(b)(2), including any of the  
21 following:

22 “(A) A nonprofit or community-based or-  
23 ganization, which may include a cultural organi-  
24 zation, such as a museum or learning center.

25 “(B) A business.

26 “(C) An institution of higher education.

1 “(D) An educational service agency.

2 “(3) STEM MASTER TEACHER CORPS.—The  
3 term ‘STEM master teacher corps’ is a State-led ef-  
4 fort to elevate the status of the science, technology,  
5 engineering, and mathematics teaching profession by  
6 recognizing, rewarding, attracting, and retaining  
7 outstanding science, technology, engineering, and  
8 mathematic teachers, particularly in high-need and  
9 rural schools, by offering such teachers additional  
10 compensation, instructional resources, and instruc-  
11 tional leadership roles.

12 **“SEC. 2503. GRANTS; ALLOTMENTS.**

13 “(a) IN GENERAL.—From amounts made available to  
14 carry out this part for a fiscal year, the Secretary shall  
15 award grants to State educational agencies, through allot-  
16 ments described in subsection (b), to enable State edu-  
17 cational agencies to carry out the activities described in  
18 section 2505.

19 “(b) DISTRIBUTION OF FUNDS.—

20 “(1) IN GENERAL.—Subject to paragraph (2),  
21 for each fiscal year, the Secretary shall allot to each  
22 State—

23 “(A) an amount that bears the same rela-  
24 tionship to 35 percent of the amount available  
25 to carry out this part for such year, as the

1           number of individuals ages 5 through 17 in the  
2           State, as determined by the Secretary on the  
3           basis of the most recent satisfactory data, bears  
4           to the number of those individuals in all such  
5           States, as so determined; and

6           “(B) an amount that bears the same rela-  
7           tionship to 65 percent of the amount available  
8           to carry out this part for such year as the num-  
9           ber of individuals ages 5 through 17 from fami-  
10          lies with incomes below the poverty line in the  
11          State, as determined by the Secretary on the  
12          basis of the most recent satisfactory data, bears  
13          to the number of those individuals in all such  
14          States, as so determined.

15          “(2) FUNDING MINIMUM.—No State receiving  
16          an allotment under this subsection may receive less  
17          than one-half of 1 percent of the total amount allot-  
18          ted under paragraph (1) for a fiscal year.

19          “(c) REALLOTMENT OF UNUSED FUNDS.—If a State  
20          does not successfully apply for an allotment under this  
21          part, the Secretary shall realLOT the amount of the State’s  
22          allotment to the remaining States in accordance with this  
23          section.

1   **“SEC. 2504. APPLICATIONS.**

2           “(a) IN GENERAL.—Each State desiring an allotment  
3   under section 2503(b) shall submit an application to the  
4   Secretary at such time, in such manner, and accompanied  
5   by such information as the Secretary may require.

6           “(b) CONTENTS.—At a minimum, an application sub-  
7   mitted under subsection (a) shall include the following:

8               “(1) A description of the needs, including as-  
9       sets, identified by the State educational agency  
10      based on a State analysis, which—

11               “(A) shall include an analysis of science,  
12              technology, engineering, and mathematics edu-  
13              cation quality and outcomes in the State, which  
14              may include results from a pre-existing anal-  
15              ysis;

16               “(B) shall include labor market informa-  
17              tion regarding the industry and business work-  
18              force needs within the State; and

19               “(C) shall include an analysis of the qual-  
20              ity of pre-service preparation at all public insti-  
21              tutions of higher education (including alter-  
22              native pathways to teacher licensure or certifi-  
23              cation) for individuals preparing to teach  
24              science, technology, engineering, and mathe-  
25              matics subjects in the State.

1           “(2) An identification of the specific subjects  
2           that the State educational agency will address  
3           through the activities described in section 2505, con-  
4           sistent with the needs identified under paragraph (1)  
5           (referred to in this part as ‘identified subjects’).

6           “(3) A description, in a manner that addresses  
7           any needs identified under paragraph (1), of—

8                   “(A) how grant funds will be used by the  
9                   State educational agency to improve instruction  
10                  in the identified subjects;

11                  “(B) the process that the State educational  
12                  agency will use for awarding subgrants, includ-  
13                  ing how relevant stakeholders will be involved;

14                  “(C) how the State’s proposed project will  
15                  ensure an increase in access for students who  
16                  are members of groups underrepresented in  
17                  science, technology, engineering, and mathe-  
18                  matics subject fields to high-quality courses in  
19                  1 or more of the identified subjects; and

20                  “(D) how the State educational agency will  
21                  continue to involve stakeholders in education re-  
22                  form efforts related to science, technology, engi-  
23                  neering, and mathematics instruction.

1   **“SEC. 2505. AUTHORIZED ACTIVITIES.**

2       “(a) REQUIRED ACTIVITIES.—Each State edu-  
3   cational agency that receives an allotment under this part  
4   shall use the grant funds to carry out each of the following  
5   activities:

6           “(1) Increasing access for students through  
7       grade 12 who are members of groups underrep-  
8       resented in science, technology, engineering, and  
9       mathematics subject fields to high-quality courses in  
10      the identified subjects.

11          “(2) Implementing evidence-based programs of  
12      instruction based on high-quality standards and as-  
13      sessments in the identified subjects.

14          “(3) Providing professional development and  
15      other comprehensive systems of support for teachers  
16      and school leaders to promote high-quality instruc-  
17      tion and instructional leadership in the identified  
18      subjects.

19      “(b) PERMISSIBLE ACTIVITIES.—Each State edu-  
20   cational agency that receives an allotment under this part  
21   may use the grant funds to carry out 1 or more of the  
22   following activities:

23          “(1) Recruiting qualified teachers and instruc-  
24      tional leaders who are trained in identified subjects,  
25      including teachers who have transitioned into the



1 teaching profession from a career in science, tech-  
2 nology, engineering, and mathematics fields.

3 “(2) Providing induction and mentoring serv-  
4 ices to new teachers in identified subjects.

5 “(3) Developing instructional supports for iden-  
6 tified subjects, such as curricula and assessments,  
7 which shall be evidence-based and aligned with chal-  
8 lenging State academic standards under section  
9 1111(b)(1).

10 “(4) Supporting the development of a State-  
11 wide STEM master teacher corps.

12 “(c) SUBGRANTS.—

13 “(1) IN GENERAL.—Each State educational  
14 agency that receives a grant under this part shall  
15 award subgrants, on a competitive basis, to eligible  
16 subgrantees to enable the eligible subgrantees to  
17 carry out the activities described in paragraph (4).

18 “(2) MINIMUM SUBGRANT.—A State edu-  
19 cational agency shall award subgrants under this  
20 subsection that are of sufficient size and scope to  
21 support high-quality, evidence-based, effective pro-  
22 grams that are consistent with the purpose of this  
23 part.

24 “(3) SUBGRANTEE APPLICATION.—

1           “(A) IN GENERAL.—Each eligible sub-  
2           grantee desiring a subgrant under this sub-  
3           section shall submit an application to the State  
4           educational agency at such time, in such man-  
5           ner, and accompanied by such information as  
6           the State educational agency may require.

7           “(B) CONTENTS OF SUBGRANTEE APPLI-  
8           CATION.—At a minimum, the application de-  
9           scribed in subparagraph (A) shall include the  
10          following:

11               “(i) A description of the activities that  
12               the eligible subgrantee will carry out, and  
13               how such activities will improve teaching  
14               and student academic achievement in the  
15               identified subjects, in a manner consistent  
16               with scientifically valid research.

17               “(ii) A description of how the eligible  
18               subgrantee will use funds provided under  
19               this subsection to serve students and  
20               teachers in high-need schools.

21               “(iii) A description of how funds pro-  
22               vided under this subsection will be coordi-  
23               nated with other Federal, State, and local  
24               programs and activities, including career  
25               and technical education programs author-

1                    ized under the Carl D. Perkins Career and  
2                    Technical Education Act of 2006.

3                    “(iv) If the eligible subgrantee is  
4                    working with outside partners, a descrip-  
5                    tion of how such outside partners will be  
6                    involved in improving instruction and in-  
7                    creasing access to high-quality learning ex-  
8                    periences in the identified subjects.

9                    “(4) SUBGRANTEE USE OF FUNDS.—

10                   “(A) REQUIRED USE OF FUNDS.—Each  
11                   subgrantee under this subsection shall use the  
12                   subgrant funds to carry out activities for stu-  
13                   dents through grade 12, as described in the  
14                   subgrantee’s application, which shall include—

15                   “(i) high-quality teacher and instruc-  
16                   tional leader recruitment, support, and  
17                   evaluation in the identified subjects for the  
18                   State;

19                   “(ii) professional development, which  
20                   may include development and support for  
21                   instructional coaches, to enable teachers  
22                   and instructional leaders to increase stu-  
23                   dent achievement in identified subjects;

24                   “(iii) activities to—

1 “(I) improve the content knowl-  
2 edge of teachers in the State identi-  
3 fied subjects;

4 “(II) facilitate professional col-  
5 laboration, which may include pro-  
6 viding time for such collaborations;  
7 and

8 “(III) improve the integration of  
9 informal and afterschool programs  
10 that target the identified subjects with  
11 classroom instruction; and

12 “(iv) the development, adoption, and  
13 improvement of high-quality curricula and  
14 instructional supports that—

15 “(I) are aligned with the chal-  
16 lenging State academic standards  
17 under section 1111(b)(1); and

18 “(II) the eligible subgrantee will  
19 use to improve student academic  
20 achievement in the identified subjects;

21 “(B) ALLOWABLE USE OF FUNDS.—In ad-  
22 dition to the required activities described in  
23 subparagraph (A), each eligible subgrantee that  
24 receives a subgrant under this subsection may  
25 also use the subgrant funds to—

1 “(i) support the participation of low-  
2 income students in nonprofit competitions  
3 related to science, technology, engineering,  
4 and mathematics subjects (such as robot-  
5 ics, science research, invention, mathe-  
6 matics, computer science, and technology  
7 competitions);

8 “(ii) broaden secondary school stu-  
9 dents’ access to, and interest in, careers  
10 that require academic preparation in 1 or  
11 more identified subjects; and

12 “(iii) broaden secondary school stu-  
13 dents’ access to early college high schools,  
14 dual enrollment, or concurrent enrollment  
15 courses in science, technology, engineering,  
16 and mathematics subjects, including pro-  
17 viding professional development to teachers  
18 and leaders related to this work.

19 “(C) MATCHING FUNDS.—A State may re-  
20 quire an eligible subgrantee receiving a  
21 subgrant under this subsection to demonstrate  
22 that such subgrantee has obtained a commit-  
23 ment from 1 or more outside partners to match,  
24 using non-Federal funds, a portion of the

1 amount of subgrant funds, in an amount deter-  
2 mined by the State.

3 “(d) STATE ACTIVITIES.—

4 “(1) IN GENERAL.—Each State educational  
5 agency that receives an allotment under this part  
6 may use not more than 5 percent of grant funds  
7 for—

8 “(A) administrative costs;

9 “(B) monitoring the implementation of  
10 subgrants;

11 “(C) providing technical assistance to eligi-  
12 ble subgrantees; and

13 “(D) evaluating subgrants in coordination  
14 with the evaluation described in section  
15 2506(c).

16 “(2) RESERVATION.—Each State educational  
17 agency that receives an allotment under this part  
18 may submit a request to the Secretary to reserve not  
19 more than 15 percent of grant funds, inclusive of  
20 the amount described in paragraph (1), for addi-  
21 tional State activities, consistent with subsections  
22 (a) and (b).

1 **“SEC. 2506. PERFORMANCE METRICS; REPORT; EVALUA-**  
2 **TION.**

3 “(a) ESTABLISHMENT OF PERFORMANCE  
4 METRICS.—The Secretary, acting through the Director of  
5 the Institute of Education Sciences, shall establish per-  
6 formance metrics to evaluate the effectiveness of the ac-  
7 tivities carried out under this part.

8 “(b) ANNUAL REPORT.—Each State educational  
9 agency that receives an allotment under this part shall  
10 prepare and submit an annual report to the Secretary,  
11 which shall include information relevant to the perform-  
12 ance metrics described in subsection (a).

13 “(c) EVALUATION.—The Secretary shall—

14 “(1) acting through the Director of the Insti-  
15 tute of Education Sciences, and in consultation with  
16 the Director of the National Science Foundation—

17 “(A) evaluate the implementation and im-  
18 pact of the activities supported under this part,  
19 including progress measured by the metrics es-  
20 tablished under subsection (a);

21 “(B) identify best practices to improve in-  
22 struction in science, technology, engineering,  
23 and mathematics subjects; and

24 “(C) ensure that the Department is taking  
25 appropriate action to avoid unnecessary dupli-  
26 cation of efforts between the activities being

1 supported under this part and other pro-  
2 grammatic activities supported by the Depart-  
3 ment or by other Federal agencies; and

4 “(2) disseminate, in consultation with the Na-  
5 tional Science Foundation, research on best prac-  
6 tices to improve instruction in science, technology,  
7 engineering, and mathematics subjects.

8 **“SEC. 2507. SUPPLEMENT NOT SUPPLANT.**

9 “Funds received under this part shall be used to sup-  
10 plement, and not supplant, funds that would otherwise be  
11 used for activities authorized under this part.”.

12 On page 314, line 5, strike “section 2004” and insert  
13 “sections 2004 and 2004A”.

14 On page 314, line 6, strike “2405” and insert  
15 “2507”.

16 On page 314, line 7, strike “**PART E**” and insert  
17 “**PART F**”.

18 On page 314, line 8, strike “**2504**” and insert “**2601**”.