

112TH CONGRESS
1ST SESSION

S. 1675

To improve student academic achievement in science, technology, engineering,
and mathematics subjects.

IN THE SENATE OF THE UNITED STATES

OCTOBER 6, 2011

Mr. MERKLEY (for himself, Mr. FRANKEN, Mr. BEGICH, Mrs. GILLIBRAND,
and Mr. CASEY) introduced the following bill; which was read twice and
referred to the Committee on Health, Education, Labor, and Pensions

A BILL

To improve student academic achievement in science,
technology, engineering, and mathematics subjects.

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 “Preparing Students
5 for Success in the Global Economy Act of 2011”.

6 **SEC. 2. PURPOSE.**

7 The purpose of this Act is to improve student aca-
8 demic achievement in science, technology, engineering, and
9 mathematics subjects by—

1 (1) improving instruction in such subjects in
2 preschool through grade 12;

3 (2) improving student engagement in, and in-
4 creasing student access to, courses in such subjects;

5 (3) improving the quality and effectiveness of
6 classroom instruction by recruiting, training, and
7 supporting highly effective teachers and providing
8 robust tools and supports for students and teachers
9 in such subjects;

10 (4) closing student achievement gaps, and pre-
11 paring more students to be prepared for postsec-
12 ondary education and careers, in such subjects; and

13 (5) recognizing that science, technology, engi-
14 neering, and mathematics are diverse subject areas
15 and that science, technology, engineering, and math-
16 ematics education programs must expose students to
17 content and skills in a host of constantly changing
18 and evolving science, technology, engineering, and
19 mathematics content areas, as specifically identified
20 by each State or eligible entity in section 5.

21 **SEC. 3. DEFINITIONS.**

22 In this Act:

23 (1) ESEA DEFINITIONS.—The terms “elemen-
24 tary school”, “limited English proficient”, “local
25 educational agency”, “secondary school”, “Sec-

1 retary”, and “State educational agency” have the
2 meanings given the terms in section 9101 of the Ele-
3 mentary and Secondary Education Act of 1965 (20
4 U.S.C. 7801).

5 (2) ELIGIBLE ENTITY.—The term “eligible enti-
6 ty” means—

7 (A) a State educational agency; or

8 (B) a State educational agency in partner-
9 ship with—

10 (i) another State educational agency;

11 or

12 (ii) a consortium of State educational
13 agencies.

14 (3) ELIGIBLE SUBGRANTEE.—The term “eligi-
15 ble subgrantee” means—

16 (A) a high-need local educational agency;

17 (B) an educational service agency serving
18 more than 1 high-need local educational agency;

19 or

20 (C) a consortium of high-need local edu-
21 cational agencies.

22 (4) OUTSIDE PARTNER.—The term “outside
23 partner” means an entity that has expertise and a
24 demonstrated record of success in improving student
25 learning and engagement in the identified subjects

1 described in section 5(b)(2), including any of the fol-
2 lowing:

3 (A) A nonprofit or community-based orga-
4 nization.

5 (B) A business.

6 (C) A nonprofit cultural organization, such
7 as a museum or learning center.

8 (D) An institution of higher education.

9 (E) An educational service agency.

10 (F) Another appropriate entity.

11 (5) STATE.—The term “State” means—

12 (A) any of the 50 States;

13 (B) the District of Columbia;

14 (C) the Bureau of Indian Education; or

15 (D) the Commonwealth of Puerto Rico.

16 **SEC. 4. GRANTS; ALLOTMENTS.**

17 (a) RESERVATIONS.—

18 (1) IN GENERAL.—From the amounts appro-
19 priated under section 12 for a fiscal year, the Sec-
20 retary shall reserve—

21 (A) 10 percent to carry out the STEM
22 master teacher corps grant program under sec-
23 tion 7;

24 (B) 2 percent to carry out technical assist-
25 ance to States, including technical assistance

1 with implementation of programs consistent
2 with the purpose of this Act;

3 (C) 3 percent to the Institute of Education
4 Sciences to enable the Director of the Institute
5 of Education Sciences to carry out the evalua-
6 tion activities described in section 9; and

7 (D) if funds are not awarded by formula,
8 as described in subsection (c)(1), 5 percent for
9 State capacity-building grants in accordance
10 with paragraph (2).

11 (2) CAPACITY-BUILDING GRANTS.—

12 (A) IN GENERAL.—In any year for which
13 funding is distributed competitively, as de-
14 scribed in subsection (b)(1), the Secretary may
15 award 1 capacity-building grant to each State
16 that does not receive a grant under subsection
17 (b), on a competitive basis, to enable such
18 States to become more competitive in future
19 years.

20 (B) DURATION.—Grants awarded under
21 subparagraph (A) shall be for a period of 1
22 year.

23 (b) COMPETITIVE GRANTS.—

24 (1) IN GENERAL.—For each fiscal year for
25 which the amount appropriated to carry out this Act

1 is less than \$500,000,000, the Secretary shall award
2 grants, on a competitive basis, to eligible entities to
3 enable such eligible entities to carry out the activi-
4 ties described in this Act.

5 (2) DURATION.—Grants awarded under this
6 subsection shall be for a period of not more than 3
7 years.

8 (3) RENEWAL.—

9 (A) IN GENERAL.—If an eligible entity
10 demonstrates progress, as measured by the
11 metrics described in section 8(a), the Secretary
12 may renew a grant for an additional 2-year pe-
13 riod.

14 (B) REDUCED FUNDING.—Grant funds
15 awarded under subparagraph (A) shall be
16 awarded at a reduced amount.

17 (c) FORMULA GRANTS.—

18 (1) IN GENERAL.—For each fiscal year for
19 which the amount appropriated to carry out this Act
20 is equal to or more than \$500,000,000, the Sec-
21 retary shall award grants to States, based on the
22 formula described in paragraph (2).

23 (2) DISTRIBUTION OF FUNDS.—The Secretary
24 shall allot to each State—

1 (A) an amount that bears the same rela-
2 tionship to 35 percent of the excess amount as
3 the number of individuals ages 5 through 17 in
4 the State, as determined by the Secretary on
5 the basis of the most recent satisfactory data,
6 bears to the number of those individuals in all
7 such States, as so determined; and

8 (B) an amount that bears the same rela-
9 tionship to 65 percent of the excess amount as
10 the number of individuals ages 5 through 17
11 from families with incomes below the poverty
12 line, in the State, as determined by the Sec-
13 retary on the basis of the most recent satisfac-
14 tory data, bears to the number of those individ-
15 uals in all such States, as so determined.

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

20 (4) REALLOTMENT OF UNUSED FUNDS.—If a
21 State does not successfully apply for or receive an
22 allotment under this subsection for a fiscal year, the
23 Secretary shall reallocate the amount of the State's al-
24 lotment to the remaining States in accordance with
25 this subsection.

1 **SEC. 5. APPLICATIONS.**

2 (a) IN GENERAL.—Each eligible entity or State desir-
3 ing a grant under this Act, whether through a competitive
4 grant under section 4(b) or through an allotment under
5 section 4(c), shall submit an application to the Secretary
6 at such time, in such manner, and accompanied by such
7 information as the Secretary may require.

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

10 (1) A description of the needs identified by the
11 State or eligible entity, based on a State analysis,
12 which—

13 (A) may include results from a preexisting
14 analysis of science, technology, engineering, and
15 mathematics education quality and outcomes in
16 the State or States served by the eligible entity;

17 (B) shall include data for elementary
18 school and secondary school grades, as applica-
19 ble and to the extent that such data are avail-
20 able, on—

21 (i) student achievement in science and
22 mathematics, including such data collected
23 in accordance with the requirements of sec-
24 tion 1111(b) of the Elementary and Sec-
25 ondary Education Act of 1965 (20 U.S.C.

1 6311(b)), and student achievement in tech-
2 nology and engineering;

3 (ii) science, technology, engineering,
4 and mathematics teacher evaluation results
5 or ratings;

6 (iii) student access to mathematics
7 and science courses needed to enroll in
8 credit-bearing coursework at institutions of
9 higher education in the State or States
10 served by the eligible entity;

11 (iv) access to science, technology, en-
12 gineering, and mathematics courses for
13 students in preschool through grade 12
14 who—

15 (I) are eligible to receive a free or
16 reduced priced lunch under the Rich-
17 ard B. Russell National School Lunch
18 Act (42 U.S.C. 1751 et seq.); or

19 (II) come from families with an
20 income that is below the poverty line;

21 (v) student achievement gaps in
22 science, technology, engineering, and math-
23 ematics subjects;

24 (vi) the percentage of students suc-
25 cessfully—

1 (I) completing Advanced Place-
2 ment (AP) or International Bacca-
3 laureate (IB) courses in science, tech-
4 nology, engineering, and mathematics
5 subjects; or

6 (II) completing rigorous postsec-
7 ondary education courses in science,
8 technology, engineering, and mathe-
9 matics subjects;

10 (vii) rates of college remediation in
11 mathematics; and

12 (viii) teacher shortages and teacher
13 distribution among local educational agen-
14 cies and schools in science, technology, en-
15 gineering, and mathematics subjects;

16 (C) shall include a review of the industry
17 and business workforce needs in the State or
18 States served by the eligible entity in jobs that
19 require knowledge or training in science, tech-
20 nology, engineering, and mathematics subjects;

21 (D) shall include an analysis of the quality
22 of preservice preparation at all public institu-
23 tions of higher education (including alternative
24 pathways to teacher licensure or certification)
25 for individuals preparing to teach science, tech-

1 nology, engineering, and mathematics subjects
2 in a preschool, elementary school, or secondary
3 school in the State; and

4 (E) shall include an analysis of the imple-
5 mentation of any multi-tiered systems of sup-
6 port that have been employed in the State or
7 States served by the eligible entity to address
8 the learning needs of students in any science,
9 technology, engineering, and mathematics sub-
10 jects.

11 (2) An identification of the specific science,
12 technology, engineering, and mathematics subjects
13 that the State or eligible entity will address through
14 the activities described in section 6, consistent with
15 the needs identified under paragraph (1) (referred to
16 in this Act as “identified subjects”).

17 (3) A description, in a manner that addresses
18 any needs identified under paragraph (1), of—

19 (A) how grant funds will be used by the
20 State or eligible entity to improve instruction in
21 identified subjects using evidence-based pro-
22 grams of instruction that are aligned with high-
23 quality standards and assessments;

24 (B) how grant funds will be used to sup-
25 port subgrantees and other high-need local edu-

1 cational agencies in the employment of multi-
2 tiered systems of support to provide early inter-
3 vening services and to increase student achieve-
4 ment in identified subjects;

5 (C) the procedures and criteria that the
6 State or eligible entity will use for reviewing ap-
7 plications and awarding funds to eligible sub-
8 grantees, including how the State or eligible en-
9 tity will ensure that subgrants will be provided
10 to high-need local educational agencies and
11 high-need schools;

12 (D) how the State's or eligible entity's ac-
13 tivities and subgrants will be coordinated with
14 other Federal, State, and local programs and
15 activities, including career and technical edu-
16 cation programs authorized under the Carl D.
17 Perkins Career and Technical Education Act of
18 2006 (20 U.S.C. 2301 et seq.);

19 (E) the technical assistance that the State
20 or eligible entity will provide to subgrantees to
21 support the activities undertaken by the sub-
22 grantees;

23 (F) how the State or eligible entity will
24 evaluate the activities funded, both at the State
25 and subgrantee level, with funds provided under

1 this Act, and in a manner consistent with any
2 evaluation activities carried out by the Institute
3 of Education Sciences under section 9, or the
4 National Science Foundation;

5 (G) how the State or eligible entity will al-
6 locate funds in a manner that will provide serv-
7 ices to both elementary schools and secondary
8 schools;

9 (H) how the State or eligible entity will
10 provide targeted support to improve instruction
11 in high-need local educational agencies and
12 high-need schools;

13 (I) how the State or eligible entity's pro-
14 posed project will ensure an increase in access
15 for students who are traditionally underrep-
16 resented in science, technology, engineering,
17 and mathematics subject fields (including fe-
18 male students, minority students, students who
19 are limited English proficient, students who are
20 children with disabilities, and students from
21 low-income families) to high-quality courses and
22 other learning experiences in 1 or more of the
23 identified subjects; and

24 (J) evidence that the State or eligible enti-
25 ty has involved a variety of stakeholders in the

1 development of the application and a descrip-
2 tion of how the State or eligible entity will con-
3 tinue to involve stakeholders in any education
4 reform efforts related to science, technology, en-
5 gineering, and mathematics instruction.

6 (4) Assurances that the State or eligible entity
7 will monitor implementation of approved subgrantee
8 plans.

9 (c) **ADDITIONAL FUNDING.**—A State or eligible enti-
10 ty that submits a request to use the additional State ac-
11 tivities reservation described in section 6(d)(2), shall pro-
12 vide, in a manner that addresses the needs identified
13 under subsection (b)(1), a description of the activities that
14 the eligible entity will carry out with such funds, con-
15 sistent with section 6.

16 **SEC. 6. AUTHORIZED ACTIVITIES.**

17 (a) **REQUIRED ACTIVITIES.**—Each State or eligible
18 entity that receives a grant under this Act shall use the
19 grant funds to carry out each of the following activities:

20 (1) Increasing access for students in preschool
21 through grade 12 that belong to groups that are tra-
22 ditionally underrepresented in science, technology,
23 engineering, and mathematics subject fields (includ-
24 ing female students, minority students, students who
25 are limited English proficient, students who are chil-

1 dren with disabilities, and students from low-income
2 families) to high-quality courses in the identified
3 subjects.

4 (2) Implementing evidence-based programs of
5 instruction based on high-quality standards and as-
6 sessments in the identified subjects.

7 (3) Providing professional development and
8 other comprehensive systems of support for teachers
9 and school leaders to promote high-quality instruc-
10 tion and instructional leadership in the identified
11 subjects.

12 (4) Providing technical assistance to sub-
13 grantees and other high-need schools and local edu-
14 cational agencies in order to improve student
15 achievement and narrow achievement gaps in identi-
16 fied subjects, including through—

17 (A) the development and implementation of
18 multi-tiered systems of support; and

19 (B) the development of curricula consistent
20 with the principals of universal design for learn-
21 ing as defined in section 103 of the Higher
22 Education Act of 1965.

23 (b) PERMISSIBLE ACTIVITIES.—Each State or eligi-
24 ble entity that receives a grant under this Act may use

1 the grant funds to carry out 1 or more of the following
2 activities:

3 (1) Recruiting qualified teachers and instruc-
4 tional leaders who are trained in identified subjects,
5 including teachers who have transitioned into the
6 teaching profession from a career in science, tech-
7 nology, engineering, and mathematics fields.

8 (2) Providing induction and mentoring services
9 to new teachers in identified subjects.

10 (3) Developing instructional supports, such as
11 curricula and assessments, which shall be evidence-
12 based and aligned with State academic standards
13 under section 1111(b) of the Elementary and Sec-
14 ondary Education Act of 1965 (20 U.S.C. 6311(b)),
15 and may include Internet-based curricula and Inter-
16 net-based instructional supports.

17 (4) Implementing an interdisciplinary approach,
18 by integrating instruction in 1 or more science, tech-
19 nology, engineering, and mathematics subjects with
20 reading, English language arts, or instruction in
21 other core academic subjects (as defined in section
22 9101 of the Elementary and Secondary Education
23 Act of 1965 (20 U.S.C. 7801)) and noncore aca-
24 demic subjects.

25 (c) SUBGRANTS.—

1 (1) IN GENERAL.—Each State or eligible entity
2 that receives a grant under this Act shall award sub-
3 grants, on a competitive basis, to eligible sub-
4 grantees.

5 (2) MINIMUM SUBGRANT.—A State or eligible
6 entity shall award subgrants under this subsection
7 that are of sufficient size and scope to support high-
8 quality, evidence-based, effective programs that are
9 consistent with the purpose of this Act.

10 (3) SUBGRANTEE APPLICATION.—

11 (A) IN GENERAL.—Each eligible sub-
12 grantee desiring a subgrant under this sub-
13 section shall submit an application to the State
14 or eligible entity at such time, in such manner,
15 and accompanied by such information as the
16 State or eligible entity may require.

17 (B) CONTENTS OF SUBGRANTEE APPLICA-
18 TION.—At a minimum, the application de-
19 scribed in subparagraph (A) shall include the
20 following:

21 (i) A description of the activities that
22 the eligible subgrantee will carry out, and
23 how such activities will improve teaching
24 and student academic achievement in the

1 identified subjects, in a manner consistent
2 with scientifically valid research.

3 (ii) A description of how the eligible
4 subgrantee will use funds provided under
5 this subsection to serve students and
6 teachers in high-need schools.

7 (iii) A description of how funds pro-
8 vided under this subsection will be coordi-
9 nated with other Federal, State, and local
10 programs and activities, including career
11 and technical education programs author-
12 ized under the Carl D. Perkins Career and
13 Technical Education Act of 2006 (20
14 U.S.C. 2301 et seq.).

15 (iv) If the eligible subgrantee is work-
16 ing with outside partners, a description of
17 how such outside partners will be involved
18 in improving instruction and increasing ac-
19 cess to high-quality learning experiences in
20 the identified subjects.

21 (4) SUBGRANTEE USE OF FUNDS.—

22 (A) REQUIRED USE OF FUNDS.—Each eli-
23 gible subgrantee that receives a subgrant under
24 this subsection shall use the subgrant funds to
25 carry out activities for students in preschool

1 through grade 12, consistent with the activities
2 described in the subgrantee's application, which
3 shall include—

4 (i) high-quality teacher and instruc-
5 tional leader recruitment, support, evalua-
6 tion, and professional development in the
7 identified subjects;

8 (ii) professional development, which
9 may include development and support for
10 instructional coaches, to enable teachers
11 and instructional leaders to increase stu-
12 dent achievement in identified subjects,
13 through—

14 (I) implementation of classroom
15 assessments; and

16 (II) differentiation of instruction
17 in identified subjects for all students,
18 including for students who are chil-
19 dren with disabilities and students
20 who are limited English proficient;

21 (iii) activities to—

22 (I) improve the content knowl-
23 edge of teachers; and

1 (II) facilitate professional col-
2 laboration, which may include pro-
3 viding time for such collaborations;

4 (iv) the development, adoption, and
5 improvement of high-quality curricula and
6 instructional supports that—

7 (I) are aligned with State aca-
8 demic standards under section
9 1111(b) of the Elementary and Sec-
10 ondary Education Act of 1965 (20
11 U.S.C. 6311(b)); and

12 (II) the eligible subgrantee will
13 use to improve student academic
14 achievement in identified subjects;

15 (v) the development or improvement,
16 and implementation, of multi-tiered sys-
17 tems of support to provide early inter-
18 vening services and to increase student
19 achievement in 1 or more of the identified
20 subjects; and

21 (vi) integrating instruction in the
22 identified subjects with instruction in read-
23 ing, English language arts, or other core
24 and noncore academic subjects.

1 (B) PERMISSIBLE USE OF FUNDS.—In ad-
2 dition to the required activities described in
3 subparagraph (A), each eligible subgrantee that
4 receives a subgrant under this subsection, may
5 also use the subgrant funds to—

6 (i) support the participation of low-in-
7 come students in nonprofit competitions
8 and out-of-school activities related to
9 science, technology, engineering, and math-
10 ematics subjects (such as robotics, science
11 research, invention, mathematics, and tech-
12 nology competitions), including—

13 (I) the purchase of parts and
14 supplies needed to participate in such
15 competitions;

16 (II) incentives and stipends for
17 teachers and instructional leaders who
18 are involved in assisting students and
19 preparing students for such competi-
20 tions, if such activities fall outside the
21 regular duties and responsibilities of
22 such teachers and instructional lead-
23 ers; and

24 (III) paying expenses associated
25 with the participation of low-income

1 students in such local, regional, or na-
2 tional competitions; and

3 (ii) broaden secondary school stu-
4 dents' access to, and interest in, careers
5 that require academic preparation in 1 or
6 more identified subjects.

7 (C) LIMITATION.—Each subgrantee that
8 receives a subgrant under this subsection shall
9 not expend more than 15 percent of the
10 subgrant funds on the activities described in
11 subparagraph (B).

12 (D) MATCHING FUNDS.—

13 (i) IN GENERAL.—A State or eligible
14 entity may require an eligible subgrantee
15 receiving a subgrant under this subsection
16 to demonstrate that such subgrantee has
17 obtained a commitment from 1 or more
18 outside partners to match, using non-Fed-
19 eral funds, a portion of the amount of
20 subgrant funds, in an amount determined
21 by the State or eligible entity.

22 (ii) REQUIRED MINIMUM.—Notwith-
23 standing clause (i), if an eligible sub-
24 grantee partners with an outside partner
25 that is a for-profit entity, such subgrantee

1 shall obtain matching funds from the out-
2 side partner in an amount equal to not less
3 than 15 percent of the amount of the
4 subgrant.

5 (d) STATE ACTIVITIES.—

6 (1) IN GENERAL.—Each State or eligible entity
7 that receives a grant under this Act may use not
8 more than 5 percent of grant funds for—

9 (A) administration costs;

10 (B) monitoring the implementation of sub-
11 grants;

12 (C) providing technical assistance to sub-
13 grantees; and

14 (D) evaluating subgrants in coordination
15 with the evaluation described in section 9.

16 (2) RESERVATION.—Each State or eligible enti-
17 ty that receives a grant under this Act may submit
18 a request to the Secretary to reserve not more than
19 15 percent of grant funds, inclusive of the amount
20 described in paragraph (1), for additional State ac-
21 tivities, consistent with subsections (a) and (b).

22 **SEC. 7. STEM MASTER TEACHER CORPS GRANT PROGRAM.**

23 (a) GRANTS AUTHORIZED.—From the funds reserved
24 under section 4(a)(1)(A), the Secretary shall award 1 or
25 more grants, on a competitive basis, to entities described

1 in subsection (b)(1) to enable such entities to establish
2 and operate a STEM master teacher corps program.

3 (b) STEM MASTER TEACHER CORPS.—The term
4 “STEM master teacher corps” (referred to in this section
5 as the “corps”) means a program—

6 (1) operated by 1 or more State educational
7 agencies, or a consortium of local educational agen-
8 cies, acting in partnership with 1 or more outside
9 partners that have a demonstrated record of success
10 in improving the effectiveness of science, technology,
11 engineering, and mathematics teachers or increasing
12 the retention of such teachers;

13 (2) that selects a group of highly rated teachers
14 (through a process, and for a duration, determined
15 by the entity described in paragraph (1)), as mem-
16 bers of the corps, that constitutes not less than 5
17 percent and not more than 10 percent of elementary
18 school, middle school, and high school teachers who
19 teach science, technology, engineering, and mathe-
20 matics subjects and who—

21 (A) teach in a participating high-need
22 school in the region served by the entity de-
23 scribed in paragraph (1); or

24 (B) agree to teach in a participating high-
25 need school in the region served by the entity

1 described in paragraph (1) if accepted as a
2 member of the corps; and

3 (3) that aims to attract, improve, and retain
4 teachers who teach science, technology, engineering,
5 and mathematics subjects and to increase student
6 achievement in such subjects, including by—

7 (A) providing instructional leadership re-
8 sponsibilities for corps members in their
9 schools, local educational agencies, or States,
10 such as mentoring beginning science, tech-
11 nology, engineering, and mathematics teachers
12 and leading professional development activities
13 for teachers not participating in the corps;

14 (B) providing corps members with re-
15 search-based professional development on in-
16 structional leadership and effective teaching
17 methods for science, technology, engineering,
18 and mathematics subjects;

19 (C) providing each teacher who is a corps
20 member with a salary supplement of not less
21 than \$10,000 per year, in recognition of such
22 teacher's teaching accomplishments, leadership,
23 and increased responsibilities, for each year
24 such teacher serves as a member of the corps;
25 and

1 (D) building a community of practice
2 among corps members to enable such members
3 to network, collaborate, and to share best prac-
4 tices and resources with each other.

5 (c) DURATION.—

6 (1) IN GENERAL.—Grants awarded under this
7 section shall be for a period of not more than 3
8 years.

9 (2) RENEWAL.—

10 (A) IN GENERAL.—If a grantee under this
11 section demonstrates progress, as measured by
12 the metrics described in section 8(a), the Sec-
13 retary may renew a grant under this section for
14 an additional 2-year period.

15 (B) REDUCED FUNDING.—Grant funds
16 awarded under subparagraph (A) shall be
17 awarded at a reduced amount.

18 (d) APPLICATION.—

19 (1) IN GENERAL.—Each entity described in
20 subsection (b)(1) desiring a grant under this section
21 shall submit an application to the Secretary at such
22 time, in such manner, and accompanied by such in-
23 formation as the Secretary may require.

1 (2) CONTENTS.—At a minimum, an application
2 submitted under paragraph (1) shall include the fol-
3 lowing:

4 (A) A plan to implement a corps program
5 that is of sufficient size and scope to have a
6 substantial, measurable effect on—

7 (i) student academic achievement in
8 science, technology, engineering, and math-
9 ematics subjects in the schools where corps
10 members teach; and

11 (ii) the effectiveness and retention
12 of—

13 (I) corps members; and

14 (II) other teachers of science,
15 technology, engineering, and mathe-
16 matics subjects who work with, or are
17 mentored by, corps members.

18 (B) A description of how the entity de-
19 scribed in subsection (b)(1) plans to sustain the
20 program after the expiration of the grant under
21 this section.

22 (e) COMPETITIVE PRIORITY.—In awarding grants
23 under this section, the Secretary shall give priority to ap-
24 plicants that will include rural schools among the schools
25 that the applicant will serve through the program.

1 (f) MATCHING FUNDS.—The Secretary may require
2 a grantee under this section to provide non-Federal
3 matching funds in an amount equal to the amount of
4 grant funds awarded under this section.

5 (g) EQUITABLE ACCESS.—If the entity described in
6 subsection (b)(1) includes a State educational agency,
7 such entity shall ensure that rural schools located in the
8 region that will be served by the entity have equitable ac-
9 cess to the STEM master teacher corps program.

10 **SEC. 8. PERFORMANCE METRICS; REPORT.**

11 (a) ESTABLISHMENT OF PERFORMANCE METRICS.—
12 The Secretary, acting through the Director of the Insti-
13 tute of Education Sciences, shall establish performance
14 metrics to evaluate the effectiveness of the activities car-
15 ried out under this Act.

16 (b) ANNUAL REPORT.—Each State or eligible entity
17 that receives a grant under this Act shall prepare and sub-
18 mit an annual report to the Secretary, which shall include
19 information relevant to the performance metrics described
20 in subsection (a).

21 **SEC. 9. EVALUATION.**

22 From the amount reserved under section 4(a)(1)(B),
23 the Secretary shall—

1 (1) acting through the Director of the Institute
2 of Education Sciences, and in consultation with the
3 Director of the National Science Foundation—

4 (A) evaluate the implementation and im-
5 pact of the activities supported under this Act,
6 including progress measured by the metrics es-
7 tablished under section 8(a); and

8 (B) identify best practices to improve in-
9 struction in science, technology, engineering,
10 and mathematics subjects; and

11 (2) disseminate, in consultation with the Na-
12 tional Science Foundation, research on best prac-
13 tices to improve instruction in science, technology,
14 engineering, and mathematics subjects.

15 **SEC. 10. SUPPLEMENT NOT SUPPLANT.**

16 Funds received under this Act shall be used to sup-
17 plement, and not supplant, funds that would otherwise be
18 used for activities authorized under this Act.

19 **SEC. 11. MAINTENANCE OF EFFORT.**

20 A State that receives funds under this Act for a fiscal
21 year shall maintain the fiscal effort provided by the State
22 for the subjects supported by the funds under this Act
23 at a level equal to or greater than the level of such fiscal
24 effort for the preceding fiscal year.

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