117th CONGRESS 1st Session S.

To direct the Director of the National Science Foundation to support STEM education and workforce development research focused on rural areas, and for other purposes.

IN THE SENATE OF THE UNITED STATES

Mr. WICKER (for himself, Ms. ROSEN, Mr. CORNYN, and Ms. HASSAN) introduced the following bill; which was read twice and referred to the Committee on ______

A BILL

- To direct the Director of the National Science Foundation to support STEM education and workforce development research focused on rural areas, and for other purposes.
 - 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 "Rural STEM Edu-5 cation Act".

6 SEC. 2. FINDINGS.

7 Congress finds the following:

8 (1) The supply of STEM workers is not keeping
9 pace with the rapidly evolving needs of the public

1 and private sector, resulting in a deficit often re-2 ferred to as a STEM skills shortage. 3 (2) According to the Bureau of Labor Statis-4 tics, the United States will need 1,000,000 more 5 STEM professionals than the United States is on 6 track to produce in the coming decade. 7 (3)Many STEM occupations offer higher 8 wages, more opportunities for advancement, and a 9 higher degree of job security than non-STEM jobs. 10 (4) The 60,000,000 individuals in the United 11 States who live in rural settings are significantly 12 under-represented in STEM. 13 (5) According to the National Center for Edu-14 cation Statistics, 9,000,000 students in the United 15 States, an amount equal to nearly 20 percent of the 16 total population of students in kindergarten through 17 grade 12, attend rural schools, and for reasons rang-18 ing from teacher quality to shortages of resources, 19 these students often have fewer opportunities for 20 high-quality STEM learning than their peers in the 21 Nation's urban and suburban schools. 22 (6) Rural areas represent one of the most 23 promising, yet underutilized, opportunities for 24 STEM education to impact workforce development

and regional innovation, including agriculture.

(7) The study of agriculture, food, and natural
 resources involves biology, engineering, physics,
 chemistry, mathematics, geology, computer science,
 and other scientific fields.

5 (8) It was estimated that by 2020 there would 6 be a projected 1,000,000 more computing jobs than 7 applicants who can fill them. To meet this demand, 8 rural students mustacquire computing skills 9 through exposure to computer science learning in 10 prekindergarten through grade 12 and in informal 11 learning settings.

12 (9) More than 293,000,000 individuals in the 13 United States use high-speed broadband to work, 14 learn, access healthcare, and operate their busi-15 nesses, while 14,500,000 individuals in the United 16 States still lack access to high-speed broadband. 17 Rural areas are hardest hit, with over 26 percent of 18 individuals in rural areas in the United States lack-19 ing access to high-speed broadband compared to 1.7 20 percent of individuals in urban areas in the United 21 States.

22 SEC. 3. NATIONAL SCIENCE FOUNDATION RURAL STEM AC23 TIVITIES.

24 (a) PREPARING RURAL STEM EDUCATORS.—

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| 1 | (1) IN GENERAL.—The Director shall provide |
| 2 | grants on a merit-reviewed, competitive basis to in- |
| 3 | stitutions of higher education or nonprofit organiza- |
| 4 | tions (or a consortium thereof) for research and de- |
| 5 | velopment to advance innovative approaches to sup- |
| 6 | port and sustain high-quality STEM teaching in |
| 7 | rural schools. |
| 8 | (2) Use of funds.— |
| 9 | (A) IN GENERAL.—Grants awarded under |
| 10 | this subsection shall be used for the research |
| 11 | and development activities referred to in para- |
| 12 | graph (1), which may include— |
| 13 | (i) engaging rural educators of stu- |
| 14 | dents in prekindergarten through grade 12 |
| 15 | in professional learning opportunities to |
| 16 | enhance STEM knowledge, including com- |
| 17 | puter science, and develop best practices; |
| 18 | (ii) supporting research on effective |
| 19 | STEM teaching practices in rural settings, |
| 20 | including the use of rubrics and mastery- |
| 21 | based grading practices to assess student |
| 22 | performance when employing the transdis- |
| 23 | ciplinary teaching approach for STEM dis- |
| 24 | ciplines; |
| | |

| 1 | (iii) designing and developing pre- |
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| 2 | service and in-service training resources to |
| 3 | assist such rural educators in adopting |
| 4 | transdisciplinary teaching practices across |
| 5 | STEM courses; |
| 6 | (iv) coordinating with local partners |
| 7 | to adapt STEM teaching practices to lever- |
| 8 | age local natural and community assets in |
| 9 | order to support in-place learning in rural |
| 10 | areas; |
| 11 | (v) providing hands-on training and |
| 12 | research opportunities for rural educators |
| 13 | described in clause (i) at Federal labora- |
| 14 | tories, institutions of higher education, or |
| 15 | in industry; |
| 16 | (vi) developing training and best prac- |
| 17 | tices for educators who teach multiple |
| 18 | grade levels within a STEM discipline; |
| 19 | (vii) designing and implementing pro- |
| 20 | fessional development courses and experi- |
| 21 | ences, including mentoring, for rural edu- |
| 22 | cators described in clause (i) that combine |
| 23 | face-to-face and online experiences; and |
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| 1 | (viii) any other activity the Director |
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| 2 | determines will accomplish the goals of this |
| 3 | subsection. |
| 4 | (B) RURAL STEM COLLABORATIVE.—The |
| 5 | Director shall establish a pilot program of re- |
| 6 | gional cohorts in rural areas that will provide |
| 7 | peer support, mentoring, and hands-on research |
| 8 | experiences for rural STEM educators of stu- |
| 9 | dents in prekindergarten through grade 12, in |
| 10 | order to build an ecosystem of cooperation |
| 11 | among educators, researchers, academia, and |
| 12 | local industry. |
| 13 | (b) BROADENING PARTICIPATION OF RURAL STU- |
| 14 | DENTS IN STEM.— |
| 15 | (1) IN GENERAL.—The Director shall provide |
| 16 | grants on a merit-reviewed, competitive basis to in- |
| 17 | stitutions of higher education or nonprofit organiza- |
| 18 | tions (or a consortium thereof) for— |
| 19 | (A) research and development of program- |
| 20 | ming to identify the barriers rural students face |
| 21 | in accessing high-quality STEM education; and |
| 22 | (B) development of innovative solutions to |
| 23 | improve the participation and advancement of |

rural students in prekindergarten through

grade 12 in STEM studies.

| | (2) Use of funds.— |
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| 2 | (A) IN GENERAL.—Grants awarded under |
| 3 | this subsection shall be used for the research |
| 4 | and development activities referred to in para- |
| 5 | graph (1), which may include— |
| 6 | (i) developing partnerships with com- |
| 7 | munity colleges to offer advanced STEM |
| 8 | course work, including computer science, to |
| 9 | rural high school students; |
| 10 | (ii) supporting research on effective |
| 11 | STEM practices in rural settings; |
| 12 | (iii) implementing a school-wide |
| 13 | STEM approach; |
| 14 | (iv) improving the National Science |
| 15 | Foundation's Advanced Technology Edu- |
| 16 | cation program's coordination and engage- |
| 17 | ment with rural communities; |
| 18 | (v) collaborating with existing commu- |
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| 19 | nity partners and networks, such as the |
| 19 20 | nity partners and networks, such as the Cooperative Extension System services and |
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| 20 | Cooperative Extension System services and |
| 20 21 | Cooperative Extension System services and extramural research programs of the De- |

| 1 | to leverage community resources and de- |
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| 2 | velop place-based programming; |
| 3 | (vi) connecting rural school districts |
| 4 | and institutions of higher education, to im- |
| 5 | prove precollegiate STEM education and |
| 6 | engagement; |
| 7 | (vii) supporting partnerships that |
| 8 | offer hands-on inquiry-based science activi- |
| 9 | ties, including coding, and access to lab re- |
| 10 | sources for students studying STEM in |
| 11 | prekindergarten through grade 12 in a |
| 12 | rural area; |
| 13 | (viii) evaluating the role of broadband |
| 14 | connectivity and its associated impact on |
| 15 | the STEM and technology literacy of rural |
| 16 | students; |
| 17 | (ix) building capacity to support ex- |
| 18 | tracurricular STEM programs in rural |
| 19 | schools, including mentor-led engagement |
| 20 | programs, STEM programs held during |
| 21 | nonschool hours, STEM networks, |
| 22 | makerspaces, coding activities, and com- |
| 23 | petitions; and |

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| 1 | (x) any other activity the Director de- |
| 2 | termines will accomplish the goals of this |
| 3 | subsection. |
| 4 | (c) APPLICATION.—An applicant seeking a grant |
| 5 | under subsection (a) or (b) shall submit an application at |
| 6 | such time, in such manner, and containing such informa- |
| 7 | tion as the Director may require. The application may in- |
| 8 | clude the following: |
| 9 | (1) A description of the target population to be |
| 10 | served by the research activity or activities for which |
| 11 | such grant is sought. |
| 12 | (2) A description of the process for recruitment |
| 13 | and selection of students, educators, or schools from |
| 14 | rural areas to participate in such activity or activi- |
| 15 | ties. |
| 16 | (3) A description of how such activity or activi- |
| 17 | ties may inform efforts to promote the engagement |
| 18 | and achievement of rural students in prekinder- |
| 19 | garten through grade 12 in STEM studies. |
| 20 | (4) In the case of a proposal consisting of a |
| 21 | partnership or partnerships with one or more rural |
| 22 | schools and one or more researchers, a plan for es- |
| 23 | tablishing a sustained partnership that is jointly de- |
| 24 | veloped and managed, draws from the capacities of |
| 25 | each partner, and is mutually beneficial. |

(d) PARTNERSHIPS.—In awarding grants under sub section (a) or (b), the Director shall—

3 (1) encourage applicants which, for the purpose
4 of the activity or activities funded through the grant,
5 include or partner with a nonprofit organization or
6 an institution of higher education (or a consortium
7 thereof) that has extensive experience and expertise
8 in increasing the participation of rural students in
9 prekindergarten through grade 12 in STEM; and

10 (2) encourage applicants which, for the purpose
11 of the activity or activities funded through the grant,
12 include or partner with a consortium of rural schools
13 or rural school districts.

(e) EVALUATIONS.—All proposals for grants under
subsections (a) and (b) shall include an evaluation plan
that includes the use of outcome-oriented measures to assess the impact and efficacy of the grant. Each recipient
of a grant under this section shall include results from
these evaluative activities in annual and final projects.

20 (f) Accountability and Dissemination.—

(1) EVALUATION REQUIRED.—The Director
shall evaluate the portfolio of grants awarded under
subsections (a) and (b). Such evaluation shall—

| 1 | (A) assess the results of research con- |
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| 2 | ducted under such grants and identify best |
| 3 | practices; and |
| 4 | (B) to the extent practicable, integrate the |
| 5 | findings of research resulting from the activity |
| 6 | or activities funded through such grants with |
| 7 | the findings of other research on rural student's |
| 8 | pursuit of degrees or careers in STEM. |
| 9 | (2) Report on evaluations.—Not later than |
| 10 | 180 days after the completion of the evaluation |
| 11 | under paragraph (1), the Director shall submit to |
| 12 | Congress and make widely available to the public a |
| 13 | report that includes— |
| 14 | (A) the results of the evaluation; and |
| 15 | (B) any recommendations for administra- |
| 16 | tive and legislative action that could optimize |
| 17 | the effectiveness of the grants awarded under |
| 18 | this section. |
| 19 | (g) Report by Committee on Equal Opportuni- |
| 20 | TIES IN SCIENCE AND ENGINEERING.— |
| 21 | (1) IN GENERAL.—As part of the first report |
| 22 | required by section 36(e) of the Science and Engi- |
| 23 | neering Equal Opportunities Act (42 U.S.C. |
| 24 | 1885c(e)) transmitted to Congress after the date of |
| 25 | enactment of this Act, the Committee on Equal Op- |

portunities in Science and Engineering shall in clude—

3 (A) a description of past and present poli4 cies and activities of the Foundation to encour5 age full participation of students in rural com6 munities in science, mathematics, engineering,
7 and computer science fields; and

8 (B) an assessment of the policies and ac-9 tivities of the Foundation, along with proposals 10 for new strategies or the broadening of existing 11 successful strategies towards facilitating the 12 goal of increasing participation of rural stu-13 dents in prekindergarten through grade 12 in 14 Foundation activities.

15 (2) TECHNICAL CORRECTION.—

16 (A) IN GENERAL.—Section 313 of the
17 American Innovation and Competitiveness Act
18 (Public Law 114–329) is amended by striking
19 "Section 204(e) of the National Science Foun20 dation Authorization Act of 1988" and insert21 ing "Section 36(e) of the Science and Engineer22 ing Equal Opportunities Act".

(B) APPLICABILITY.—The amendment
made by paragraph (1) shall take effect as if
included in the enactment of section 313 of the

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American Innovation and Competitiveness Act
 (Public Law 114–329).

3 (h) COORDINATION.—In carrying out this section, the
4 Director shall, for purposes of enhancing program effec5 tiveness and avoiding duplication of activities, consult, co6 operate, and coordinate with the programs and policies of
7 other relevant Federal agencies.

8 SEC. 4. OPPORTUNITIES FOR ONLINE EDUCATION.

9 (a) IN GENERAL.—The Director shall award competi-10 tive grants to institutions of higher education or nonprofit 11 organizations (or a consortium thereof, which may include 12 a private sector partner) to conduct research on online 13 STEM education courses for rural communities.

14 (b) RESEARCH AREAS.—The research areas eligible15 for funding under this section shall include—

16 (1) evaluating the learning and achievement of
17 rural students in prekindergarten through grade 12
18 in STEM subjects;

(2) understanding how computer-based and online professional development courses and mentor experiences can be integrated to meet the needs of
educators of rural students in prekindergarten
through grade 12;

| 1 | (3) combining computer-based and online |
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| 2 | STEM education and training with apprenticeships, |
| 3 | mentoring, or other applied learning arrangements; |
| 4 | (4) leveraging online programs to supplement |
| 5 | STEM studies for rural students that need physical |
| 6 | and academic accommodation; and |
| 7 | (5) any other activity the Director determines |
| 8 | will accomplish the goals of this section. |
| 9 | (c) EVALUATIONS.—All proposals for grants under |
| 10 | this section shall include an evaluation plan that includes |
| 11 | the use of outcome-oriented measures to assess the impact |
| 12 | and efficacy of the grant. Each recipient of a grant under |
| 13 | this section shall include results from these evaluative ac- |
| 14 | tivities in annual and final projects. |
| 15 | (d) Accountability and Dissemination.— |
| 16 | (1) EVALUATION REQUIRED.—The Director |
| 17 | shall evaluate the portfolio of grants awarded under |
| 18 | this section. Such evaluation shall— |
| 19 | (A) use a common set of benchmarks and |
| 20 | tools to assess the results of research conducted |
| 21 | under such grants and identify best practices; |
| 22 | and |
| 23 | (B) to the extent practicable, integrate |
| 24 | findings from activities carried out pursuant to |
| 25 | research conducted under this section, with re- |

| 1 | spect to the pursuit of careers and degrees in |
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| 2 | STEM, with those activities carried out pursu- |
| 3 | ant to other research on serving rural students |
| 4 | and communities. |
| 5 | (2) Report on evaluations.—Not later than |
| 6 | 180 days after the completion of the evaluation |
| 7 | under paragraph (1), the Director shall submit to |
| 8 | Congress and make widely available to the public a |
| 9 | report that includes— |
| 10 | (A) the results of the evaluation; and |
| 11 | (B) any recommendations for administra- |
| 12 | tive and legislative action that could optimize |
| 13 | the effectiveness of the grants awarded under |
| 14 | this section. |
| 15 | (e) COORDINATION.—In carrying out this section, the |
| 16 | Director shall, for purposes of enhancing program effec- |
| 17 | tiveness and avoiding duplication of activities, consult, co- |
| 18 | operate, and coordinate with the programs and policies of |
| 19 | other relevant Federal agencies. |
| 20 | SEC. 5. NATIONAL ACADEMY OF SCIENCES EVALUATION. |
| 21 | (a) STUDY.—Not later than 12 months after the date |
| 22 | of enactment of this Act, the Director shall enter into an |
| 23 | agreement with the National Academy of Sciences under |
| 24 | which the National Academy agrees to conduct an evalua- |
| 25 | tion and assessment that— |
| | |

(1) evaluates the quality and quantity of cur-1 2 rent Federal programming and research directed at 3 examining STEM education for students in pre-4 kindergarten through grade 12 and workforce devel-5 opment in rural areas; 6 (2) in coordination with the Federal Commu-7 nications Commission, assesses the impact the scar-8 city of broadband connectivity in rural communities 9 has on STEM and technical literacy for students in 10 prekindergarten through grade 12 in rural areas; 11 (3) assesses the core research and data needed 12 to understand the challenges rural areas are facing 13 in providing quality STEM education and workforce 14 development; 15 (4) makes recommendations for action at the 16 Federal, State, and local levels for improving STEM 17 education, including online STEM education, for 18 students in prekindergarten through grade 12 and

19 workforce development in rural areas; and

20 (5) makes recommendations to inform the im-21 plementation of programs in sections 3 and 4.

(b) REPORT TO DIRECTOR.—The agreement entered
into under subsection (a) shall require the National Academy of Sciences, not later than 24 months after the date
of enactment of this Act, to submit to the Director a re-

port on the study conducted under such subsection, includ ing the National Academy's findings and recommenda tions.

4 SEC. 6. GAO REVIEW.

5 Not later than 3 years after the date of enactment 6 of this Act, the Comptroller General of the United States 7 shall conduct a study on the engagement of rural popu-8 lations in Federal STEM programs and submit to Con-9 gress a report that includes—

10 (1) an assessment of how Federal STEM edu11 cation programs are serving rural populations;

(2) a description of initiatives carried out by
Federal agencies that are targeted at supporting
STEM education in rural areas;

(3) an assessment of what is known about the
impact and effectiveness of Federal investments in
STEM education programs that are targeted to
rural areas; and

(4) an assessment of challenges that State and
Federal STEM education programs face in reaching
rural population centers.

22 SEC. 7. CAPACITY BUILDING THROUGH EPSCOR.

23 Section 517(f)(2) of the America COMPETES Reau24 thorization Act of 2010 (42 U.S.C. 1862p–9(f)(2)) is
25 amended—

| 1 | (1) in subparagraph (A), by striking "and" at |
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| 2 | the end; and |
| 3 | (2) by adding at the end the following: |
| 4 | "(C) to increase the capacity of rural com- |
| 5 | munities to provide quality STEM education |
| 6 | and STEM workforce development program- |
| 7 | ming to students and teachers; and". |
| 8 | SEC. 8. NIST ENGAGEMENT WITH RURAL COMMUNITIES. |
| 9 | (a) MEP Outreach.—Section 25 of the National |
| 10 | Institute of Standards and Technology Act (15 U.S.C. |
| 11 | 278k) is amended— |
| 12 | (1) in subsection (c)— |
| 13 | (A) in paragraph (6), by striking "commu- |
| 14 | nity colleges and area career and technical edu- |
| 15 | cation schools" and inserting the following: |
| 16 | "secondary schools (as defined in section 8101 |
| 17 | of the Elementary and Secondary Education |
| 18 | Act of 1965 (20 U.S.C. 7801)), community col- |
| 19 | leges, and area career and technical education |
| 20 | schools, including those in underserved and |
| 21 | rural communities,"; and |
| 22 | (B) in paragraph (7)— |
| 23 | (i) by striking "and local colleges" |
| 24 | and inserting the following: "local high |
| 25 | schools and local colleges, including those |

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| 1 | in underserved and rural communities,"; |
| 2 | and |
| 3 | (ii) by inserting "or other applied |
| 4 | learning opportunities" after "apprentice- |
| 5 | ships''; and |
| 6 | (2) in subsection $(d)(3)$ by striking ", commu- |
| 7 | nity colleges, and area career and technical edu- |
| 8 | cation schools," and inserting the following: "and |
| 9 | local high schools, community colleges, and area ca- |
| 10 | reer and technical education schools, including those |
| 11 | in underserved and rural communities,". |
| 12 | (b) RURAL CONNECTIVITY PRIZE COMPETITION.— |
| 13 | (1) PRIZE COMPETITION.—Pursuant to section |
| 14 | 24 of the Stevenson-Wydler Technology Innovation |
| 15 | Act of 1980 (15 U.S.C. 3719), the Secretary of |
| 16 | Commerce, acting through the Under Secretary of |
| 17 | Commerce for Standards and Technology (referred |
| 18 | to in this subsection as the "Secretary"), shall carry |
| 19 | out a program to award prizes competitively to stim- |
| 20 | ulate research and development of creative tech- |
| 21 | nologies in order to deploy affordable and reliable |
| 22 | broadband connectivity to unserved rural commu- |
| 23 | nities. |
| 24 | (2) Plan for deployment in rural commu- |
| 25 | |

25 NITIES.—Each proposal submitted pursuant to para-

1 graph (1) shall include a plan for deployment of the 2 technology that is the subject of such proposal in an 3 unserved rural community. 4 (3) PRIZE AMOUNT.—In carrying out the pro-5 gram under paragraph (1), the Secretary may award 6 not more than a total of \$5,000,000 to one or more 7 winners of the prize competition. 8 (4) REPORT.—Not later than 60 days after the 9 date on which a prize is awarded under the prize 10 competition, the Secretary shall submit to the rel-11 evant committees of Congress a report that describes 12 the winning proposal of the prize competition. 13 (5) CONSULTATION.—In carrying out the pro-14 gram under this subsection, the Secretary shall con-15 sult with the Federal Communications Commission 16 and the heads of relevant departments and agencies 17 of the Federal Government. 18 SEC. 9. NITR-D BROADBAND WORKING GROUP. 19 Title I of the High-Performance Computing Act of 1991 (15 U.S.C. 5511 et seq.) is amended by adding at 20 21 the end the following: 22 "SEC. 103. BROADBAND RESEARCH AND DEVELOPMENT 23 WORKING GROUP. 24 "(a) IN GENERAL.—The Director shall establish a 25 broadband research and development working group to ad-

dress national research challenges and opportunities for
 improving broadband access and adoption across the
 United States.

4 "(b) ACTIVITIES.—The working group shall identify
5 and coordinate key research priorities for addressing
6 broadband access and adoption, including—

7 "(1) promising research areas;

8 "(2) requirements for data collection and shar-9 ing;

10 "(3) opportunities for better alignment and co11 ordination across Federal agencies and external
12 stakeholders; and

13 "(4) input on the development of new Federal
14 policies and programs to enhance data collection and
15 research.

16 "(c) COORDINATION.—The working group shall co-17 ordinate, as appropriate, with the Rural Broadband Inte-18 gration Working Group established under section 6214 of 19 the Agriculture Improvement Act of 2018 (Public Law 20 115–334), the National Institute of Food and Agriculture 21 of the Department of Agriculture, and the Federal Com-22 munications Commission.

23 "(d) REPORT.—The working group shall report to
24 Congress on their activities as part of the annual report
25 submitted under section 101(a)(2)(D).

1 "(e) SUNSET.—The authority to carry out this sec-2 tion shall terminate on the date that is 5 years after the 3 date of enactment of the Rural STEM Education Act.". 4 SEC. 10. DEFINITIONS. 5 In this Act: 6 (1) DIRECTOR.—The term "Director" means 7 the Director of the National Science Foundation es-8 tablished under section 2 of the National Science 9 Foundation Act of 1950 (42 U.S.C. 1861). 10 (2) FEDERAL LABORATORY.—The term "Fed-11 eral laboratory" has the meaning given such term in 12 section 4 of the Stevenson-Wydler Technology Inno-13 vation Act of 1980 (15 U.S.C. 3703). 14 FOUNDATION.—The term "Foundation" (3)15 means the National Science Foundation established 16 under section 2 of the National Science Foundation 17 Act of 1950 (42 U.S.C. 1861). 18 (4) INSTITUTION OF HIGHER EDUCATION.—The 19 term "institution of higher education" has the 20 meaning given such term in section 101(a) of the 21 Higher Education Act of 1965 (20 U.S.C. 1001(a)). 22 (5) STEM.—The term "STEM" has the mean-23 ing given the term in section 2 of the America COM-PETES Reauthorization Act of 2010 (42 U.S.C. 24 25 6621 note).

(6) STEM EDUCATION.—The term "STEM
 education" has the meaning given the term in sec tion 2 of the STEM Education Act of 2015 (42
 U.S.C. 6621 note).