114TH CONGRESS 2D SESSION	S.
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To ensure that Federal science agencies and institutions of higher education receiving Federal research and development funding are fully engaging the entire national talent pool, and for other purposes.

IN THE SENATE OF THE UNITED STATES

Ms.	HIRONO (for herself, Mr. Peters, Mrs. Murray, Mrs. Gillibrand, Mr.
	BLUMENTHAL, Mr. MARKEY, Ms. CANTWELL, Mr. BOOKER, Mr. SCHATZ,
	and Mr. Merkley) introduced the following bill; which was read twice
	and referred to the Committee on

A BILL

To ensure that Federal science agencies and institutions of higher education receiving Federal research and development funding are fully engaging the entire national talent pool, 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; FINDINGS.
- 4 (a) Short Title.—This Act may be cited as the
- 5 "STEM Opportunities Act of 2016".
- 6 (b) FINDINGS.—Congress finds as follows:

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(1) Utilizing the talent and potential of all sectors of the United States population is essential to ensuring the best and brightest minds contribute to our Nation's innovation and global competiveness. Substantial research has found that increasing diversity in the workplace can increase productivity, improve decision making, foster creativity, drive innovation, and increase economic growth.

- (2) Research shows that women and minorities who are interested in science, technology, engineering, and mathematics (STEM) careers are disproportionately lost at nearly every transition in their career trajectories. If the percentage of women and minorities earning degrees in STEM fields does not keep pace with their share of the population, the United States could face an acute shortfall in the overall number of students who earn degrees in STEM fields. United States companies are increasingly seeking students with STEM skills, and the United States will struggle to maintain a competitive edge in the 21st century global economy if it does not maintain its leadership in STEM.
- (3) In 2012, underrepresented minority groups comprised 36.4 percent of the college-age population of the United States, but only 14.7 percent of stu-

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dents earning bachelor's degrees in STEM fields.

The Higher Education Research Institute at the University of California, Los Angeles, found that, while freshmen from underrepresented minority groups express an interest in pursuing a STEM undergraduate degree at the same rate as all other freshmen, only 22.1 percent of Latino students, 18.4 percent of African-American students, and 18.8 percent of Native American students studying in STEM fields complete their degree within 5 years, compared to approximately 33 percent and 42 percent 5 year completion rates for White and Asian students, respectively.

(4) According to 3-year estimates from the 2013 American Community Survey, Southeast Asian Americans and Pacific Islanders have higher poverty rates and lower educational attainment rates than the overall population in the United States. Aggregated data on Asian Americans and Pacific Islanders (referred to in this section as "AAPI"), on average, masks educational inequalities that exist for some AAPI members, particularly Southeast Asians, Pacific Islanders, and Native Hawaiians.

(5) According to the 2015 Women, Minorities, and Persons with Disabilities in Science and Engi-

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neering Report developed by the National Science Foundation (referred to in this section as the "NSF"), women earned only 19 percent of all bachelor's degrees awarded in engineering and 18 percent in computer science. In terms of advancing through higher levels of STEM education, women persist at a similar rate of completion through doctorate degrees in certain STEM fields. However, in other fields such as the physical sciences, their persistence numbers decrease by as much as 1 in 4.

of our Nation's total population, yet Black and Hispanic faculty only hold about 6.5 percent of all tenured and tenure-track positions and 5 percent of full professor positions. Many of the numbers for American Indian, Alaskan Native, Native Hawaiian, or other Pacific Islander representation at different faculty ranks are too small for the NSF to report publicly. Women's participation in STEM similarly drops at the faculty level. While women account for 50.8 percent of the Nation's total population, they hold only 25 percent of all tenured and tenure-track positions and 17 percent of full professor positions in STEM fields in our Nation's universities and 4-year colleges.

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(7) Research has found that all women of color, including Asian American women, face a "double bind" in pursuing STEM careers, encountering challenges faced both by women and by ethnic minorities, and are underrepresented in upper management and leadership in STEM academia, industry, and government. A 2015 NSF report found that Black and Hispanic women together only hold about 4.4 percent of all tenured and tenure-track positions and 1.5 percent of full professor positions. While Asian American women make up 6.1 percent of all tenured and tenure-track positions, their representation drops to 1.9 percent at the full professor position.

(8) A large body of research has found that both males and females in STEM report facing significant challenges in balancing their work and life demands on a regular basis. Furthermore, research has found that family characteristics, such as marital status and the presence of children at home, are related to women's chances of earning tenure or holding other leadership positions. A 2015 NSF report found that women scientists and engineers were far more likely than men to cite family responsibilities as a reason for unemployment, including 27.2 percent of White women, 48.6 percent of Asian

women, and 24.4 percent of underrepresented minority women.

(9) Decades of cognitive psychology research reveal that most people carry implicit, or unconscious biases, that can unintentionally influence people's attitudes, beliefs, behaviors, and decision-making processes. Research has shown that these subtle biases can impact classroom experiences, workplace environment and culture, peer review processes, hiring, promotion and evaluation, and even affect the performance of women and minorities in STEM fields.

(10) NSF's ADVANCE program was created in 2001 under President George W. Bush's Administration to increase the representation and advancement of women in academic science and engineering careers, thereby developing a more diverse science and engineering workforce. The ADVANCE program has supported comprehensive, institution-wide projects at institutions of higher education to transform institutional practices and climate. However, additional funding and mechanisms are needed for ADVANCE to assist in increasing the representation and advancement of other groups that are also underrepresented in STEM fields. In addition, an ADVANCE Center of Excellence could institu-

tionalize and scale up the best practices and policies
 from United States institutions of higher education
 that are receiving ADVANCE grants.

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(11) NSF currently administers the Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring (referred to in this section as "PAESMEM") on behalf of the Office of Science Technology and Policy to recognize individuals and organizations who have onstrated excellence in mentoring in STEM fields. While a large body of research has shown that mentoring is key for the retention and success of underrepresented groups in STEM, underrepresented STEM academics and professionals are often disproportionately burdened by service and mentoring responsibilities, which can harm their chances of receiving tenure or other promotions. Furthermore, access to positive mentorship is not always available to STEM professionals at early stages of their careers. By recognizing and rewarding exemplary STEM mentors at earlier points in their careers, PAESMEM has the potential to encourage professionals to take on positive mentoring responsibilities in the context of other career development challenges and pressures that occur. Furthermore, awards such

as PAESMEM can encourage institutions to develop
a culture that prioritizes the development of positive
mentoring relationships.
(12) The Federal Government provides more
than 60 percent of research funding at institutions
of higher education and, through its grant-making
policies, has had significant influence on institution
of higher education policies, including policies re-
lated to institutional culture and structure.
SEC. 2. DEFINITIONS.
In this Act:
(1) Director.—Except as provided in section
4, the term "Director" means the Director of the
National Science Foundation.
(2) Federal Laboratory.—The term "Fed-
eral laboratory" has the meaning given such term in
section 4 of the Stevenson-Wydler Technology Inno-
vation Act of 1980 (15 U.S.C. 3703).
(3) Federal science agency.—The term
"Federal science agency" means any Federal agency
with not less than \$100,000,000 in research and de-
velopment expenditures in fiscal year 2014.
(4) Institution of higher education.—The
term "institution of higher education" has the

9 1 meaning given such term in section 101(a) of the 2 Higher Education Act of 1965 (20 U.S.C. 1001(a)). 3 (5) STEM.—The term "STEM" means the aca-4 demic and professional disciplines of science, tech-5 nology, engineering, and mathematics, including 6 computer science. 7 (6) Systemic factors.—The term "systemic 8 factors" refers to factors that social, behavioral, and 9 organizational research has shown can impede the 10 success of underrepresented groups in STEM. These 11 factors include implicit bias, stereotype threat, and 12 caregiving responsibilities. 13 (7) Underrepresented groups.—The term 14 "underrepresented groups" refers to groups of peo-15 ple who are represented in a STEM discipline at a 16 rate lower than their proportion in the general popu-17 lation, including Women, Blacks or African Ameri-18 cans, Hispanics or Latinos, Native Americans, Alas-19 kan Natives, Native Hawaiians, Pacific Islanders, 20 subgroups of Asian Americans, and persons with dis-21 abilities. 22 (8) Work-life accommodation.—The term

(8) WORK-LIFE ACCOMMODATION.—The term "work-life accommodation" means institutional policies and practices designed to create healthy and supportive environments to help students, trainees,

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1	employees, contractors, or grantees effectively bal-
2	ance their work and personal responsibilities and
3	thereby maximize performance. These include flexi-
4	ble work schedules, leave, and stop-the-clock policies
5	for parents and caregivers, as well as support for
6	mental health and wellness.
7	SEC. 3. PURPOSES.
8	The purposes of this Act are as follows:
9	(1) To collect data necessary to increase the un-
10	derstanding of factors that influence the participa-
11	tion and career trajectories of underrepresented
12	groups in STEM fields.
13	(2) To coordinate the development of trainings
14	and policies across Federal science agencies to im-
15	prove inclusion of underrepresented groups in
16	STEM.
17	(3) To identify, implement, and disseminate
18	best practices for addressing the systemic factors
19	that can affect the inclusion of underrepresented
20	groups in STEM.
21	(4) To provide grants for evidence-based efforts
22	to recruit, retain, and advance members from under-
23	represented groups in STEM education and the
24	workforce.

1	(5) To recognize and reward teachers, faculty
2	members, and organizations who demonstrate a com-
3	mitment to encouraging the participation of under-
4	represented groups in STEM fields.
5	SEC. 4. STEM INCLUSION INTERAGENCY WORKING GROUP
6	(a) In General.—The Director of the Office of
7	Science and Technology Policy (referred to in this section
8	as the "Director") shall establish the "STEM Inclusion
9	Interagency Working Group" (referred to in this Act as
10	the "working group") under the authority of the National
11	Science and Technology Council Committee on Science
12	The working group shall focus on creating a more diverse
13	and inclusive STEM workforce, and shall be responsible
14	for the following:
15	(1) Collecting and reporting information on
16	Federal funding for STEM.
17	(2) Reviewing and coordinating training efforts
18	across Federal science agencies to address factors
19	that impede inclusion in STEM of underrepresented
20	groups.
21	(3) Reviewing and coordinating policies across
22	Federal science agencies to address factors that can
23	impede the inclusion of underrepresented groups in
24	STEM.

1	(4) Assessing the effectiveness of the trainings
2	and policies implemented by Federal science agencies
3	in increasing the recruitment, retention, and success
4	of underrepresented groups in STEM across the
5	Federal science agencies.
6	(b) Membership.—
7	(1) In general.—The working group shall
8	consist of not less than 7 members.
9	(2) APPOINTMENT.—Each agency with a rep-
10	resentative on the National Science and Technology
11	Council Committee on Science shall nominate a rep-
12	resentative to serve on the working group, and the
13	Director shall select not less than 6 of such nomi-
14	nees to serve for not more than 5 years on the work-
15	ing group.
16	(3) Expert in employee training.—One
17	member of the working group shall be nominated by
18	the Director of the Office of Personnel Management
19	and approved by the Director and shall be an expert
20	in employee training.
21	(4) Chair; meetings.—One member of the
22	working group shall be designated by the Director to

serve as the Chair of the working group for not

more than 2 years. The working group shall meet at

such times and places as designated by the Chair.

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1	(c) Stakeholder Input.—In carrying out the re-
2	sponsibilities under subsection (a), the working group
3	shall take into account input and recommendations from
4	non-Federal stakeholders, including the President's Coun-
5	cil of Advisors on Science and Technology, federally fund-
6	ed and non-federally funded researchers, institutions of
7	higher education, scientific disciplinary societies and asso-
8	ciations, nonprofit research institutions, industry (includ-
9	ing small businesses), federally funded research and devel-
10	opment centers, non-governmental organizations, the
11	Committee on Science, Technology, Engineering, and
12	Math Education (CoSTEM), the Interagency Title IX
13	Working Group, and others with a stake in reducing bar-
14	riers for developing a diverse and inclusive Federal STEM
15	workforce.
16	(d) Activities.—The working group shall engage in
17	the following activities:
18	(1) Collection of Data.—
19	(A) In general.—Each Federal science
20	agency shall annually collect standardized
21	record-level information on demographics, in-
22	cluding gender, race, ethnicity, disability, citi-
23	zenship status, age, and years since completion
24	of degree, as well as primary field, award type
25	review rating (as practicable), budget request.

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funding outcome, and awarded budget for all applications for merit-reviewed research and development grants to institutions of higher education and Federal laboratories supported by such agency. The working group shall coordinate the collection and reporting of this data gathered by the Federal science agencies with the relevant Federal statistical agencies.

(B) Uniformity and standardization.—The working group, with the approval of the Director, shall establish a policy to ensure uniformity and standardization of the data collection required under subparagraph (A) and interoperability of data reporting as required under subparagraph (D).

(C) Record-Level Data.—

(i) REQUIREMENT.—Beginning not later than 2 years after the date of enactment of this Act and annually thereafter, each Federal science agency shall submit to the working group record-level data collected under subparagraph (A) in the form required by the working group and consistent with the policy established under subparagraph (B).

1	(11) PREVIOUS DATA.—As part of the
2	first submission under clause (i), each
3	Federal science agency, to the extent prac-
4	ticable, shall also submit comparable
5	record data for the 5 years preceding the
6	date of submission.
7	(iii) Avoiding duplication of ef-
8	FORTS.—The working group shall work
9	collaboratively with other relevant Federal
10	agencies to gather the information required
11	under clauses (i) and (ii) through existing
12	data collection and reporting efforts to the
13	extent possible.
14	(D) Reporting.—Not later than 2 years
15	after the date of enactment of this Act and
16	every 2 years thereafter, the working group, in
17	collaboration with the relevant Federal statis-
18	tical agencies, shall provide to the National
19	Science Board all statistical summary data col-
20	lected under this paragraph. Not later than 6
21	months after receiving the summary data, the
22	National Science Board shall publish a report
23	that includes statistical summary data, find-
24	ings, and policy recommendations in a report as
25	required under section 4(j)(2) of the National

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Science Foundation Act of 1950 (42 U.S.C. 1863(j)(2)). All statistical summary data shall be disaggregated and cross-tabulated by the same race response categories as the decennial census of the population, ethnicity, disability, gender, age, and number of years since receiving doctoral degree, provided that such data does not reveal personally identifiable information about an individual.

(2) Coordination and implementation of training across federal science agencies to create a more diverse and inclusive stem workforce.—

(A) In GENERAL.—Not later than 6 months after the date of enactment of this Act, the working group, with the approval of the Director, shall recommend a uniform policy for a minimum frequency of trainings and a set of model training curricula for Federal science agencies to use to educate Federal STEM employees and program managers, senior managers at Federal laboratories, and other federally funded intramural and extramural researchers about methods for addressing the systemic factors that can limit the recruitment, re-

1	tention, and success of underrepresented groups
2	at all stages of the STEM pipeline. The train-
3	ing policies and curricula shall address the fol-
4	lowing:
5	(i) Training at least biannually on re-
6	ducing implicit bias in hiring, promotion,
7	evaluation, the grant review process, and
8	the workplace in general.
9	(ii) Methods to reduce the experience
10	of stereotype threat.
11	(iii) Prevention of sexual harassment
12	in the workplace.
13	(iv) Other evidence-based training on
14	systemic factors that the working group
15	determines can impede the inclusion of
16	underrepresented groups in STEM and in
17	the workplace.
18	(B) Interagency coordination.—The
19	working group shall ensure that training poli-
20	cies and curricula are coordinated across Fed-
21	eral science agencies and jointly supported as
22	appropriate.
23	(C) Existing guidance.—In developing
24	the policy and training curricula under subpara-
25	graph (A), the working group shall utilize guid-

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ance and best practices already developed or collected by the Office of Science and Technology Policy, the National Aeronautics and Space Administration, the National Science Foundation, the Office of Personnel Management, the Office of Management and Budget, the Department of Education, or from any other appropriate source.

(D) DISSEMINATION OF GUIDANCE.—The working group shall broadly disseminate the training policies and curricula under subparagraph (A) to institutions of higher education that receive Federal research funding, scientific disciplinary societies and associations, nonprofit research institutions, industry (including small businesses), and federally funded research and development centers, non-governmental organizations, and others with a stake in increasing the inclusion of underrepresented groups in STEM. The dissemination process shall include the creation of a public website.

(E) ESTABLISHMENT OF TRAINING POLICIES AND CURRICULA.—

curricula based on the model under subparagraph (A); (II) adapt such model policies and curricula to their as appropriate; and (III) report to the Directe Office of Science and Technol icy on the training policies a ricula and implementation pla agency. (ii) Ensuring Quality.—Th tor of the Office of Science and Technol roughly shall— (I) ensure the quality training policies and curricula scribed under clause (i) for expected and required imum frequency and required under subparagraph (A); (II) require updates, if no	ERAL.—Not later than 1
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1	(III) approve such training poli-
2	cies and curricula not later than 15
3	months after the date of enactment of
4	this Act.
5	(F) Interagency coordination.—The
6	working group shall ensure that training poli-
7	cies and curricula are jointly supported across
8	Federal science agencies, as appropriate.
9	(3) Coordination and implementation of
10	POLICY DEVELOPMENT ACROSS FEDERAL SCIENCE
11	AGENCIES TO CREATE A MORE DIVERSE AND INCLU-
12	SIVE STEM WORKFORCE.—
13	(A) GUIDANCE TO ALL FEDERAL SCIENCE
14	AGENCIES.—The working group shall gather,
15	develop, and disseminate evidence-based prac-
16	tices and recommend model policies for achiev-
17	ing greater inclusion of underrepresented
18	groups in STEM to all Federal science agencies
19	and provide guidance on reviewing and updat-
20	ing policies and practices that can impede the
21	inclusion of underrepresented groups in STEM
22	within each agency. The model policies and
23	practices shall address the following:

1	(1) Work-life accommodation, includ-
2	ing flexibility for caregivers on the timing
3	of research grants.
4	(ii) Procedures for handling claims of
5	sexual harassment.
6	(iii) Reducing implicit bias in hiring,
7	promotion, evaluation, the grant review
8	process, and the workplace in general.
9	(iv) Other policies and practices to ad-
10	dress systemic factors that the working
11	group determines can impede the inclusion
12	of underrepresented groups in STEM and
13	the workplace.
14	(B) ESTABLISHMENT OF POLICIES AND
15	PRACTICES.—
16	(i) In general.—Not later than 1
17	year after the date of enactment of this
18	Act, each Federal science agency shall—
19	(I) work with the Office of Per-
20	sonnel Management to adopt the
21	model policies and practices under
22	subparagraph (A);
23	(II) adapt such model policies
24	and practices to their agency, as ap-
25	propriate; and

1	(III) report to the Director of the
2	Office of Science and Technology Pol-
3	icy on the policy and practice imple-
4	mentation plan of the agency.
5	(ii) Ensuring quality.—The Direc-
6	tor of the Office of Science and Technology
7	Policy shall—
8	(I) ensure the quality of the poli-
9	cies and practices described under
10	clause (i) for each Federal science
11	agency meet the minimum require-
12	ments under subparagraph (A);
13	(II) require updates, if necessary;
14	and
15	(III) approve such policies and
16	practices not later than 15 months
17	after the date of enactment of this
18	Act.
19	(C) Report to congress.—Not later
20	than 2 years after the date of enactment of this
21	Act and every 2 years thereafter, the working
22	group shall report to Congress on what steps all
23	Federal science agencies have taken to imple-
24	ment policies and practices to address systemic
25	factors that impede inclusion of underrep-

1	resented groups in agency workplaces, and how
2	effective those policies and practices have been
3	in increasing participation of underrepresented
4	groups in the agencies.
5	SEC. 5. STRENGTHENING THE NATIONAL SCIENCE FOUN-
6	DATION ADVANCE PROGRAM.
7	(a) Strengthening the National Science
8	FOUNDATION ADVANCE PROGRAM.—
9	(1) In general.—The Director shall continue
10	the goals and activities of the ADVANCE program
11	as in effect on the date of enactment of this Act to
12	focus on increasing the recruitment, retention, and
13	success of all women in STEM, including minorities
14	and persons with disabilities.
15	(2) Recognition for excellence in stem
16	INCLUSION.—The Director shall support the explo-
17	ration, development, evaluation, and implementation
18	of a system to recognize institutions of higher edu-
19	cation that have demonstrated success in promoting
20	inclusion for underrepresented groups in STEM.
21	(b) Establishment of Advance Center of Ex-
22	CELLENCE FOR INCLUSION IN STEM.—
23	(1) IN GENERAL.—The Director shall build on
24	the success of the ADVANCE program by awarding
25	a grant for the establishment of at least 1 Center of

1	Excellence for Inclusion in STEM (referred to in
2	this section as a "Center")—
3	(A) to collect, maintain, and disseminate
4	information on increasing the inclusion of all
5	underrepresented groups in STEM, including
6	women, minorities, and persons with disabil-
7	ities; and
8	(B) to scale-up the success of ADVANCE
9	funded initiatives and other federally funded
10	initiatives to support women, minorities, and
11	persons with disabilities in STEM careers by
12	providing technical assistance, disseminating
13	best practices, and providing related training at
14	federally funded institutions of higher edu-
15	cation.
16	(2) Establishment.—
17	(A) IN GENERAL.—The Director shall es-
18	tablish a Center through a competitive grant
19	award consistent with standard National
20	Science Foundation practice.
21	(B) Criteria.—Grants awarded under
22	this subsection shall be awarded on a merit-re-
23	viewed, competitive basis. The Director shall es-
24	tablish criteria for the award of a grant under
25	this subsection that includes requiring a grant

1	recipient to transfer all Center program infor-
2	mation to any awardee that receives a subse-
3	quent grant under this subsection.
4	(C) Public domain.—All program infor-
5	mation developed, collected, or maintained by a
6	Center, with the exception of personally identifi-
7	able information, is and shall remain part of
8	the public domain.
9	(D) Duration.—At least one Center es-
10	tablished under this subsection shall be oper-
11	ational at all times during the 15 years fol-
12	lowing the initial Center program award
13	(3) General operation.—A Center estab-
14	lished under this subsection shall carry out the fol-
15	lowing activities:
16	(A) Collect, maintain, and broadly dissemi-
17	nate information from ADVANCE funded ini-
18	tiatives and from broader STEM communities
19	on systemic factors affecting the participation
20	of underrepresented groups in STEM, and best
21	practices for addressing those factors.
22	(B) Collaborate with Federal science agen-
23	cies and professional associations to share best
24	practices on work-life accommodation policies
25	and practices.

1	(C) Collaborate with institutions of higher
2	education in order to clarify and catalyze the
3	adoption of a coherent and consistent set of
4	work-life accommodation policies and practices
5	that support the needs of faculty, students,
6	post-doctoral fellows, staff, and trainees.
7	(D) Provide educational opportunities, in-
8	cluding workshops and trainings for STEM fac-
9	ulty to improve their mentoring, instructing,
10	and advising of students from underrepresented
11	groups.
12	(E) Provide training at least biannually on
13	the impact of implicit bias on hiring, promotion,
14	evaluation, grant review processes, and the
15	workplace in general.
16	(F) Develop evidence-based workshops and
17	training on improving inclusion of underrep-
18	resented groups in STEM. Such workshops and
19	training may be carried out by awarding sub-
20	grants to institutions of higher education (or
21	consortia of such institutions), nonprofit organi-
22	zations, professional societies, or other entities
23	that the Center determines eligible for partici-
24	pation. An eligible entity that carries out a
25	workshop under this subparagraph shall collect

1	data on the rates of attendance by invitees in
2	workshops, including information on the home
3	institution, rank, and department of attendees
4	conduct attitudinal surveys on workshop
5	attendees before and after the workshops, and
6	collect follow-up data on any relevant institu-
7	tional policy or practice changes reported by
8	attendees not later than 1 year after attendance
9	in such a workshop.
10	(G) Other efforts that the Center deter-
11	mines are necessary to further the inclusion of
12	underrepresented groups in STEM.
13	(c) National Conference and Report to Con-
14	GRESS.—
15	(1) IN GENERAL.—Not later than 4 years after
16	the date of enactment of this Act, a Center shall
17	hold a national conference on the effectiveness of the
18	activities supported under this section.
19	(2) Invitees.—Conference invitees shall rep-
20	resent community colleges, business and industry
21	secondary school systems, 4-year institutions of
22	higher education, nonprofit organizations, Federal
23	
	science agencies and education agencies, Federal

1	(3) FOCUS.—The conference shall focus on ad-
2	vancing collaborative capacity within, across, and be-
3	yond ADVANCE awardees.
4	(4) Conference Participants.—Conference
5	participants shall share recent research and program
6	progress, evaluate opportunities for inter-project col-
7	laboration, exchange and disseminate ideas within
8	the community, and provide program management
9	the opportunity to assess the overall balance of the
10	portfolio and evaluate future research and program
11	priorities.
12	(5) Conference report.—A conference re-
13	port, including program progress, shall be available
14	to the public and provided to Congress not later
15	than 6 months after the end of the conference.
16	(d) Authorization of Appropriations.—There
17	are authorized to be appropriated—
18	(1) \$20,000,000 in each of fiscal years 2017
19	through 2021 for the ADVANCE program at the
20	National Science Foundation, including activities de-
21	scribed in subsection (a); and
22	(2) \$6,000,000 in each of fiscal years 2017
23	through 2021 to carry out subsections (b) and (c).

1	SEC. 6. DATA COLLECTION TO DETERMINE SUCCESS IN
2	BROADENING STEM FACULTY.
3	(a) Collection of Data.—Not later than 2 years
4	after the date of enactment of this Act, and every 2 years
5	thereafter, the Director shall carry out a survey to collect
6	institution-level data on the demographics of STEM fac-
7	ulty, by broad fields of STEM at different types of institu-
8	tions of higher education, and shall consider, by gender,
9	race, ethnicity, disability, citizenship status, age, and
10	years since completion of doctoral degree—
11	(1) the number and percentage of faculty;
12	(2) the number and percentage of faculty at
13	each rank;
14	(3) faculty years in rank; and
15	(4) the number and percentage of faculty hired,
16	by rank.
17	(b) Publication of Results.—Not later than 6
18	months after the completion of the data collection de-
19	scribed in subsection (a), the Director shall provide all rel-
20	evant data and information to the National Science Board.
21	Not later than 6 months after receiving such data and
22	information, the National Science Board shall publish a
23	report that includes statistical summary data, findings,
24	and policy recommendations resulting from the feasibility
25	study described in subsection (c), in a report as required
26	by section 4(j)(2) of the National Science Foundation Act

1	of 1950 (42 U.S.C. 1863(j)(2)). All statistical summary
2	data shall be disaggregated and cross-tabulated by the
3	same race response categories as the decennial census of
4	the population, ethnicity, gender, age, disability, and num-
5	ber of years since receiving doctoral degree, provided that
6	such data does not reveal personally identifiable informa-
7	tion about an individual.
8	(c) Survey Study.—Not later than 2 years after the
9	date of enactment of this Act, the Director shall evaluate
10	the feasibility of a survey or other data collection instru-
11	ment to collect institution-level data on—
12	(1) the demographics of faculty, including post-
13	doctoral positions, by broad fields of STEM at dif-
14	ferent types of institutions of higher education, and
15	shall consider, by gender, race, ethnicity, disability,
16	citizenship status, age, and years since completion of
17	doctoral degree—
18	(A) the number and percentage of faculty
19	who are reviewed for promotion, including ten-
20	ure, and the percentage of that number who are
21	promoted, included being awarded tenure;
22	(B) the number and percentage of faculty
23	to leave tenure track positions;
24	(C) the number and percentage of faculty
25	in leadership positions;

1	(D) the size and composition of the various
2	components included in the start-up package
3	for new faculty hires;
4	(E) the number and percentage of faculty
5	who are in nontenure-track positions, including
6	teaching and research; and
7	(F) the number and percentage of post-
8	doctoral fellows or trainees who are not em-
9	ployed in a STEM position at an academic in-
10	stitution 5 years after their fellowship or
11	traineeship began; and
12	(2) the demographics of STEM pre-doctoral
13	students, by broad fields of STEM at different types
14	of institutions of higher education, and shall con-
15	sider, by gender, race, ethnicity, disability, citizen-
16	ship status, age, and socioeconomic status—
17	(A) the number and percentage of pre-doc-
18	toral students who leave their program before
19	becoming Ph.D. candidates;
20	(B) the number and percentage of Ph.D.
21	candidates who leave their program before re-
22	ceiving their Ph.D.; and
23	(C) the number of years to attrition in pre-
24	doctoral program.

- 1 (d) Publication of Results.—The National
- 2 Science Board shall develop a companion piece to the
- 3 Science and Engineering Indicators biennial report on in-
- 4 dicators of the state of science and engineering in the
- 5 United States, as required under section 4(j)(1) of the Na-
- 6 tional Science Foundation Act of 1950 (42 U.S.C.
- 7 1863(j)(1)), regarding the results of the feasibility study
- 8 described in subsection (c), and make related policy rec-
- 9 ommendations. All statistical summary data shall be
- 10 disaggregated and cross-tabulated by the same race re-
- 11 sponse categories as the decennial census of the popu-
- 12 lation, ethnicity, disability, gender, and age, provided that
- 13 such data does not reveal personally identifiable informa-
- 14 tion about an individual.
- (e) AUTHORIZATION OF APPROPRIATIONS.—There
- 16 are authorized to be appropriated \$3,000,000 in each of
- 17 fiscal years 2017 through 2019 to carry out this section.
- 18 SEC. 7. NATIONAL SCIENCE FOUNDATION SUPPORT FOR
- 19 BROADENING PARTICIPATION IN STEM.
- 20 (a) Grants.—The Director shall award competitive
- 21 grants to institutions of higher education (or consortia of
- 22 such institutions) to implement or expand evidence-based
- 23 reforms for the purpose of recruiting, retaining, and ad-
- 24 vancing students, fellows, trainees, and faculty from
- 25 underrepresented groups in STEM, and do so, to the ex-

tent practicable, within existing National Science Founda-2 tion programs. 3 (b) MERIT REVIEW; COMPETITION.—Grants shall be awarded under this section on a merit-reviewed, competi-5 tive basis. 6 (c) Selection Process.— 7 (1) APPLICATION.—An institution of higher 8 education (or a consortium of such institutions) 9 seeking a grant under this section shall submit an 10 application to the Director at such time, in such 11 manner, and containing such information and assur-12 ances as such Director may require. The application 13 shall include, at a minimum— 14 (A) a description of the proposed reform 15 effort; 16 (B) a description of the research findings 17 that will serve as the basis for the proposed re-18 form effort or, in the case of applications that 19 propose an expansion of a previously imple-20 mented reform, a description of the previously 21 implemented reform effort, including data about 22 the recruitment, retention, and academic 23 achievement of students from underrepresented 24 groups;

1	(C) evidence of an institutional commit-
2	ment to, and support for, the proposed reform
3	effort, including a long-term commitment to im-
4	plement successful strategies from the current
5	reform beyond the academic unit or units in-
6	cluded in the grant proposal;
7	(D) a description of existing or planned in-
8	stitutional policies and practices regarding fac-
9	ulty hiring, promotion, tenure, and teaching as-
10	signments that reward faculty contributions to
11	increasing representation from underrep-
12	resented groups in STEM; and
13	(E) how the success and effectiveness of
14	the proposed reform effort will be evaluated and
15	assessed in order to contribute to the national
16	knowledge base about models for catalyzing in-
17	stitutional change.
18	(2) Review of applications.—In selecting
19	grant recipients under this section, the Director
20	shall consider, at a minimum—
21	(A) the likelihood of success of the pro-
22	posed reform effort at the institution submit-
23	ting the application, including the extent to
24	which the faculty, staff, and administrators of
25	the institution are committed to making the

1	proposed institutional reform a priority of the
2	participating academic unit or units;
3	(B) the degree to which the proposed re-
4	form effort will contribute to change in institu-
5	tional culture and policy such that greater value
6	is placed on faculty engagement in the retention
7	of students from underrepresented groups;
8	(C) the likelihood that the institution will
9	sustain or expand the proposed reform effort
10	beyond the period of the grant; and
11	(D) the degree to which evaluation and as-
12	sessment plans are included in the design of the
13	proposed reform effort.
14	(3) Priority.—With respect to applications for
15	a grant under this section that include an expansion
16	of existing reforms beyond a single academic unit,
17	the Director shall give priority in awarding grants to
18	applications for which a senior institutional adminis-
19	trator, such as a dean or other administrator of
20	equal or higher rank, serves as the principal investi-
21	gator. The Director shall give priority in awarding
22	grants under this section to applications that target
23	at the broad fields of STEM in which the national
24	rate of representation of underrepresented groups
25	among tenured or tenure-track faculty or non-faculty

1 researchers at doctorate-granting institutions of 2 higher education is at least 25 percent less than the 3 graduate degree completion rate for underrep-4 resented groups in that broad field of STEM, ac-5 cording to the most recent data available from the 6 National Center for Science and Engineering Statis-7 tics. 8 (4) Grant distribution.—The Director shall 9 ensure, to the extent practicable, that grants award-10 ed under this section are made to a variety of types 11 of institutions of higher education, including 2-year 12 institutions of higher education and minority-serving 13 institutions of higher education. 14 (d) Use of Funds.—An institution of higher edu-15 cation (or a consortium of such institutions) that receives a grant under this section shall use the grant funds for 16 17 activities that may include— 18 (1) implementation or expansion of innovative, 19 research-based approaches to broaden participation 20 of underrepresented groups in STEM fields; 21 (2) implementation or expansion of bridge, co-22 hort, tutoring, or mentoring programs designed to 23 enhance the recruitment and retention of students 24 from underrepresented groups in STEM fields;

1	(3) expansion of successful reforms aimed at in-
2	creasing the number of STEM students from under-
3	represented groups beyond a single course or group
4	of courses to achieve reform within an entire aca-
5	demic unit, or expansion of successful reform efforts
6	beyond a single academic unit to other STEM aca-
7	demic units within an institution of higher edu-
8	cation;
9	(4) expansion of opportunities for students from
10	underrepresented groups to conduct STEM research
11	in industry, at Federal laboratories, and at inter-
12	national research institutions or research sites;
13	(5) provision of stipends for students from
14	underrepresented groups participating in research;
15	(6) development of research collaborations be-
16	tween research-intensive institutions of higher edu-
17	cation and minority-serving institutions;
18	(7) programs to help prepare undergraduate
19	students from minority-serving institutions to enter
20	graduate programs at predominately White institu-
21	tions of higher education;
22	(8) activities to identify and engage exceptional
23	undergraduate and graduate students from under-
24	represented groups at various stages of their studies
25	and to encourage them to enter academic careers;

1 (9) professional development, mentoring, and 2 research training opportunities for graduate stu-3 dents and early career faculty from underrep-4 resented groups; 5 (10) implementation or expansion of faculty de-6 velopment programs focused on improving retention 7 of undergraduate and graduate STEM students 8 from underrepresented groups; 9 (11) implementation or expansion of mecha-10 nisms designed to recognize and reward faculty 11 members who demonstrate a commitment to increas-12 ing the participation of students from underrep-13 resented groups in STEM fields; 14 (12) institution-wide improvements in workload 15 distribution, such that faculty staff, postdoctoral fel-16 lows, trainees, and students from underrepresented 17 groups are not disadvantaged in conducting re-18 search, publishing papers, and engaging in other ac-19 tivities required to achieve tenure status or advance 20 their career; 21 (13) development and implementation of train-22 ing courses for administrators and search committee 23 members to ensure that candidates from underrep-24 resented groups are not subject to implicit biases in

1 hiring, promotion, or evaluation processes or proce-2 dures; 3 (14) institutional assessment activities, includ-4 ing data collection and policy review to assess fac-5 tors that may be impeding or facilitating the recruit-6 ment, retention, and success of underrepresented 7 groups at all levels of the university; and 8 (15) other activities consistent with the purpose 9 described in subsection (a), as determined by the Di-10 rector. 11 (e) Education Research.— 12 (1) IN GENERAL.—All grants awarded under 13 this section shall include an education research com-14 ponent that will support the design and implementa-15 tion of a system for data collection and evaluation 16 of proposed reform efforts in order to build the 17 knowledge base on promising models for increasing 18 recruitment and retention of students from under-19 represented groups in STEM education at the un-20 dergraduate and graduate level across a diverse set 21 of institutions. 22 (2) DISSEMINATION.—The Director shall co-

ordinate with relevant Federal agencies in dissemi-

nating the results of the research under this sub-

section to ensure that best practices for increasing

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1	the inclusion of underrepresented groups in STEM
2	in institutions of higher education are made readily
3	available to all types of institutions of higher edu-
4	cation, other Federal agencies, relevant committees,
5	subcommittees, and working groups of the National
6	Science and Technology Council, non-Federal
7	funders of STEM education, and the general public.
8	(f) AUTHORIZATION OF APPROPRIATIONS.—There
9	are authorized to be appropriated \$15,000,000 in each of
10	fiscal years 2017 through 2021 to carry out this section.
11	SEC. 8. AUTHORIZATION OF PRESIDENTIAL AWARDS FOR
12	EXCELLENCE IN SCIENCE, MATHEMATICS,
13	AND ENGINEERING MENTORING.
13 14	AND ENGINEERING MENTORING. (a) Establishment.—The Director shall administer
14	(a) Establishment.—The Director shall administer
14 15	(a) ESTABLISHMENT.—The Director shall administer the Presidential Awards for Excellence in Science, Mathematics, and Engineering Mentoring program (referred to
14 15 16 17	(a) ESTABLISHMENT.—The Director shall administer the Presidential Awards for Excellence in Science, Mathematics, and Engineering Mentoring program (referred to
14 15 16 17	(a) ESTABLISHMENT.—The Director shall administer the Presidential Awards for Excellence in Science, Mathematics, and Engineering Mentoring program (referred to in this section as the "PAESMEM" program) on behalf
14 15 16 17 18	(a) ESTABLISHMENT.—The Director shall administer the Presidential Awards for Excellence in Science, Mathematics, and Engineering Mentoring program (referred to in this section as the "PAESMEM" program) on behalf of the White House Office of Science and Technology Pol-
14 15 16 17 18	(a) ESTABLISHMENT.—The Director shall administer the Presidential Awards for Excellence in Science, Mathematics, and Engineering Mentoring program (referred to in this section as the "PAESMEM" program) on behalf of the White House Office of Science and Technology Policy to recognize, on an annual basis, outstanding men-
14 15 16 17 18 19 20	(a) ESTABLISHMENT.—The Director shall administer the Presidential Awards for Excellence in Science, Mathematics, and Engineering Mentoring program (referred to in this section as the "PAESMEM" program) on behalf of the White House Office of Science and Technology Policy to recognize, on an annual basis, outstanding mentoring in STEM fields in primary, secondary, and higher
14 15 16 17 18 19 20 21	(a) ESTABLISHMENT.—The Director shall administer the Presidential Awards for Excellence in Science, Mathematics, and Engineering Mentoring program (referred to in this section as the "PAESMEM" program) on behalf of the White House Office of Science and Technology Policy to recognize, on an annual basis, outstanding mentoring in STEM fields in primary, secondary, and higher education.
14 15 16 17 18 19 20 21	(a) ESTABLISHMENT.—The Director shall administer the Presidential Awards for Excellence in Science, Mathematics, and Engineering Mentoring program (referred to in this section as the "PAESMEM" program) on behalf of the White House Office of Science and Technology Policy to recognize, on an annual basis, outstanding mentoring in STEM fields in primary, secondary, and higher education. (b) Three Types of Awards.—The following 3

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States citizens or lawful permanent residents in industry, academia, primary and secondary education, military, nonprofit organizations, foundations, and government. Distinguished PAESMEM program winners shall have not less than 5 years of sustained, exceptional mentoring with demonstrated impact on underrepresented groups.

(2) Nominees for the Roland B. Scott Early Career Mentor PAESMEM program award shall be United States citizens or lawful permanent residents in industry, academia, primary and secondary education, military, nonprofit organizations, foundations, and government. Consideration for Early Career Mentor PAESMEM program awards shall be given to early career scientists, technicians, post-baccalaureate, post-masters, post-doctoral, new STEM faculty, and new STEM K-12 teachers (both preand in-service), in public and private sectors. Early Career Mentor PAESMEM program winners shall have not less than 2 years of sustained, exceptional mentoring with demonstrated impact on underrepresented groups.

(3) Nominees for the Carl Sagan Organizational PAESMEM program award shall be a United States educational institution or agency, corporation,

1	foundation, military or government agency, or non-
2	profit organization. An Organizational PAESMEM
3	program nominee may be a mentoring program or
4	activity within an organization.
5	(c) REVIEW OF APPLICATIONS.—The Director shall
6	solicit applications across all types of entities until at least
7	100 applications are received for each of the 3 types of
8	PAESMEM program awards described under subsection
9	(b).
10	(d) DISTRIBUTION OF AWARDS.—
11	(1) Frequency.—PAESMEM program win-
12	ners shall be announced and honored annually, not
13	later than 1 year after the application deadline.
14	(2) Number.—A minimum of 20 PAESMEM
15	program winners shall be honored annually in each
16	of the categories described under paragraphs (1)
17	through (3) of subsection (b).
18	(3) Monetary award.—Except as provided in
19	paragraph (5), each PAESMEM program winner
20	shall receive a monetary award of \$10,000 and a
21	Presidential citation.
22	(4) Consideration.—The Director, in award-
23	ing—
24	(A) PAESMEM program winners in each
25	of the categories described under paragraphs

1	(1) and (2) of subsection (b), shall make a fair
2	distribution of awards to individuals who are
3	from underrepresented groups; and
4	(B) PAESMEM program winners in the
5	category described under subsection (b)(3)
6	shall make awards to all types of entities de-
7	scribed under subsection (b)(3).
8	(5) Supplemental award for early ca-
9	REER FACULTY.—Annually, not less than 5 of the
10	Roland B. Scott Early Career Mentor PAESMEM
11	program winners shall be reserved for early career
12	faculty at institutions of higher education who have
13	shown promise for making a significant contribution
14	to their field of expertise. Such faculty members
15	shall receive an additional \$50,000 award that can
16	be used towards advancing their program of re-
17	search.
18	(e) Exemption From Merit Review.—Nomina-
19	tions for PAESMEM program awards shall be exempt
20	from merit review criteria.
21	(f) List of Winners to Congress.—The Director
22	shall provide Congress with an annual list of PAESMEM
23	program winners, including the name, institution, and a
24	brief synopsis of the impact of the mentoring efforts.

1	(g) AUTHORIZATION OF APPROPRIATIONS.—There
2	are authorized to be appropriated \$1,000,000 for each of
3	fiscal years 2017 through 2021 to carry out this section.
4	SEC. 9. REDUCING GOVERNMENT WASTE AND ADMINISTRA-
5	TIVE BURDEN AT THE NATIONAL SCIENCE
6	FOUNDATION.
7	The following reports produced by the National
8	Science Foundation shall be eliminated:
9	(1) The Mathematics and Science Education
10	Partnerships report on coordination under section
11	9(c)(4) of the National Science Foundation Author-
12	ization Act of 2002 (42 U.S.C. $1862n(c)(4)$).
13	(2) The report under section 1008(c) of the
14	America COMPETES Act (42 U.S.C. 6603(c)).
15	(3) The funding for successful science, tech-
16	nology, engineering, and mathematics education pro-
17	grams report under section 7012(c) of the America
18	COMPETES Act (42 U.S.C. 6603(c)).
19	(4) The encouraging participation report under
20	section 7031(b) of the America COMPETES Act
21	(42 U.S.C. 1862o–11).
22	(5) The evaluations report under section
23	19(a)(3) of the National Science Foundation Au-
24	thorization Act of 2002 (42 U.S.C. 1862n-8(a)(3)).

1	(6) The major research equipment and facilities
2	construction plan report under section 14(a)(2) of
3	the National Science Foundation Authorization Act
4	of 2002 (42 U.S.C. 1862n-4(a)(2)).