#### Union Calendar No. 350

115TH CONGRESS 1ST SESSION

### H. R. 4375

[Report No. 115-471]

To provide for a study on broadening participation in certain National Science Foundation research and education programs, to collect data on Federal research grants to science agencies, and for other purposes.

#### IN THE HOUSE OF REPRESENTATIVES

NOVEMBER 13, 2017

Mrs. Comstock (for herself, Ms. Eddie Bernice Johnson of Texas, Mr. Smith of Texas, and Mr. Knight) introduced the following bill; which was referred to the Committee on Science, Space, and Technology

DECEMBER 18, 2017

Additional sponsors: Ms. Esty of Connecticut and Mrs. Bustos

DECEMBER 18, 2017

Committed to the Committee of the Whole House on the State of the Union and ordered to be printed

#### A BILL

To provide for a study on broadening participation in certain National Science Foundation research and education programs, to collect data on Federal research grants to science agencies, 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 "STEM Research and				
5	Education Effectiveness and Transparency Act".				
6	SEC. 2. BROADENING PARTICIPATION IN STEM PROGRAM				
7	EFFECTIVENESS STUDY.				
8	(a) In General.—Not later than 12 months after				
9	the date of enactment of this Act, the Director of the Na-				
10	tional Science Foundation shall submit a report to Con-				
11	gress on the effectiveness of all National Science Founda-				
12	tion research and education programs for broadening the				
13	participation of women and other historically underrep-				
14	resented individuals in STEM studies and careers, includ-				
15	ing—				
16	(1) development or identification of perform-				
17	ance metrics to evaluate such programs;				
18	(2) information on student outcomes using all				
19	available data, including dropout rates, enrollment in				
20	graduate programs, internships or apprenticeships,				
21	and employment;				
22	(3) identification of any data gaps for evalu-				
23	ating the effectiveness and outcomes of National				
24	Science Foundation programs to broaden participa-				
25	tion; and				

1	(4) recommendations for maintaining, trans-					
2	lating, and disseminating outcomes data for STEM					
3	programs funded by the National Science Founda					
4	tion.					
5	(b) Definition of STEM.—In this section, the					
6	term "STEM" has the meaning given the term in section					
7	2 of the America COMPETES Reauthorization Act of					
8	2010 (42 U.S.C. 6621 note).					
9	SEC. 3. COLLECTION AND REPORTING OF DATA ON FED-					
10	ERAL RESEARCH GRANTS.					
11	(a) Collection of Data.—					
12	(1) In general.—Each Federal science agence					
13	shall collect standardized record-level annual infor					
14	mation on demographics, primary field, award type					
15	review rating, budget request, funding outcome, and					
16	awarded budget for all applications for merit-re-					
17	viewed research and development grants to institu-					
18	tions of higher education and Federal laboratories					
19	supported by that agency.					
20	(2) Uniformity and standardization.—The					
21	Director shall establish a policy to ensure uniformity					
22	and standardization of the data collection required					
23	under paragraph (1).					
24	(3) Record-Level Data.—					

- 1 (A) REQUIREMENT.—On an annual basis,
  2 beginning with the deadline under subpara3 graph (C), each Federal science agency shall
  4 submit to the Director of the National Science
  5 Foundation record-level data collected under
  6 paragraph (1) in the form required by such Di7 rector.
  - (B) Previous data.—As part of the first submission under subparagraph (A), each Federal science agency, to the extent practicable, shall submit comparable record-level data for the 5 years preceding the deadline under subparagraph (C).
- 14 (C) DEADLINE.—The deadline under this 15 paragraph is not later than 1 year after the 16 date of enactment of this Act.
- 17 (b) Reporting of Data.—The Director of the Na-18 tional Science Foundation shall publish statistical sum-19 mary data collected under this section, disaggregated and 20 cross-tabulated demographically and by years since com-21 pletion of doctoral degree, including in conjunction with 22 the National Science Foundation's report required by sec-23 tion 37 of the Science and Technology Equal Opportuni-24 ties Act (42 U.S.C. 1885d; Public Law 96–516).
- 25 (c) Definitions.—In this section:

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- 1 (1) DIRECTOR.—The term "Director" means 2 the Director of the Office of Science and Technology 3 Policy.
  - (2) Federal Laboratory.—The term "Federal laboratory" has the meaning given that term in section 4 of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3703).
    - (3) FEDERAL SCIENCE AGENCY.—The term "Federal science agency" means any Federal agency with at least \$100,000,000 in research and development expenditures in fiscal year 2017.
  - (4) Institution of Higher Education.—The term "institution of higher education" has the meaning given such term in section 101(a) of the Higher Education Act of 1965 (20 U.S.C. 1001(a)).

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