

106TH CONGRESS
2D SESSION

H. R. 4485

To authorize appropriations for fiscal years 2001, 2002, 2003, and 2004
for the National Science Foundation, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

MAY 17, 2000

Mr. SENSENBRENNER introduced the following bill; which was referred to the
Committee on Science

A BILL

To authorize appropriations for fiscal years 2001, 2002,
2003, and 2004 for the National Science Foundation,
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 “National Science
5 Foundation Authorization Act of 2000”.

6 **SEC. 2. AUTHORIZATION OF APPROPRIATIONS.**

7 (a) FISCAL YEAR 2001.—

8 (1) IN GENERAL.—There are authorized to be
9 appropriated to the National Science Foundation
10 \$3,773,710,000 for fiscal year 2001.

1 (2) SPECIFIC ALLOCATIONS.—Of the amount
2 authorized under paragraph (1)—

3 (A) \$2,813,500,000 shall be made avail-
4 able to carry out Research and Related Activi-
5 ties, of which—

6 (i) \$480,560,000 shall be made avail-
7 able for Biological Sciences;

8 (ii) \$9,770,000 shall be made avail-
9 able for Computer and Information Science
10 and Engineering;

11 (iii) \$403,650,000 shall be made
12 available for Engineering;

13 (iv) \$549,730,000 shall be made avail-
14 able for Geosciences;

15 (v) \$807,200,000 shall be made avail-
16 able for Mathematical and Physical
17 Sciences;

18 (vi) \$159,790,000 shall be made avail-
19 able for Social, Behavioral, and Economic
20 Sciences;

21 (vii) \$220,970,000 shall be made
22 available for United States Polar Research
23 Programs;

1 (viii) \$62,600,000 shall be made avail-
2 able for United States Antarctic Logistical
3 Support Activities; and

4 (ix) \$119,230,000 shall be made avail-
5 able for Integrative Activities;

6 (B) \$726,700,000 shall be made available
7 for Education and Human Resources, of which
8 \$53,080,000 shall be for Graduate Research
9 Fellowships;

10 (C) \$65,340,000 shall be made available
11 for Major Research Equipment, of which—

12 (i) \$17,440,000 shall be made avail-
13 able for the EarthScope;

14 (ii) \$16,400,000 shall be made avail-
15 able for the Large Hadron Collider;

16 (iii) \$6,000,000 shall be made avail-
17 able for Millimeter Array;

18 (iv) \$12,000,000 shall be made avail-
19 able for the National Ecological Observ-
20 atory Network; and

21 (v) \$13,500,000 shall be made avail-
22 able for the South Pole Station;

23 (D) \$160,890,000 shall be made available
24 for Salaries and Expenses, of which—

1 (i) \$4,000,000 shall be made available
2 for travel for Research and Related Activi-
3 ties;

4 (ii) \$310,000 shall be made available
5 for travel for Education and Human Re-
6 sources;

7 (iii) \$159,000 shall be made available
8 for travel for Budget, Finance, and Award
9 Management;

10 (iv) \$182,000 shall be made available
11 for travel for Information and Resources
12 Management;

13 (v) \$358,468 shall be made available
14 for travel for the Office of the Director;
15 and

16 (vi) \$1,075,000 shall be made avail-
17 able for ethics activities under section 6;
18 and

19 (E) \$6,280,000 shall be made available for
20 the Office of Inspector General.

21 (3) TRAVEL LIMITATION.—None of the funds
22 authorized by this subsection may be used for travel
23 expenses except as provided in paragraph (2)(D)(i)
24 through (v). None of the funds authorized by clauses
25 (i) through (iv) of paragraph (2)(D) may be used for

1 travel expenses for personnel in the Office of the Di-
2 rector.

3 (b) FISCAL YEAR 2002.—

4 (1) IN GENERAL.—There are authorized to be
5 appropriated to the National Science Foundation
6 \$3,887,291,000 for fiscal year 2002.

7 (2) SPECIFIC ALLOCATIONS.—Of the amount
8 authorized under paragraph (1)—

9 (A) \$2,880,683,000 shall be made avail-
10 able to carry out Research and Related Activi-
11 ties, of which—

12 (i) \$492,035,000 shall be made avail-
13 able for Biological Sciences;

14 (ii) \$10,003,000 shall be made avail-
15 able for Computer and Information Science
16 and Engineering;

17 (iii) \$413,289,000 shall be made
18 available for Engineering;

19 (iv) \$562,857,000 shall be made avail-
20 able for Geosciences;

21 (v) \$826,475,000 shall be made avail-
22 able for Mathematical and Physical
23 Sciences;

1 (vi) \$163,606,000 shall be made avail-
2 able for Social, Behavioral, and Economic
3 Sciences;

4 (vii) \$226,246,000 shall be made
5 available for United States Polar Research
6 Programs;

7 (viii) \$64,095,000 shall be made avail-
8 able for United States Antarctic Logistical
9 Support Activities; and

10 (ix) \$122,077,000 shall be made avail-
11 able for Integrative Activities;

12 (B) \$744,422,000 shall be made available
13 for Education and Human Resources, of which
14 \$54,400,000 shall be for Graduate Research
15 Fellowships;

16 (C) \$90,000,000 shall be made available
17 for Major Research Equipment, of which—

18 (i) \$28,460,000 shall be made avail-
19 able for the EarthScope;

20 (ii) \$16,900,000 shall be made avail-
21 able for the Large Hadron Collider; and

22 (iii) \$20,000,000 shall be made avail-
23 able for the National Ecological Observ-
24 atory Network;

1 (D) \$165,756,000 shall be made available
2 for Salaries and Expenses, of which—

3 (i) \$4,095,200 shall be made available
4 for travel for Research and Related Activi-
5 ties;

6 (ii) \$317,400 shall be made available
7 for travel for Education and Human Re-
8 sources;

9 (iii) \$162,800 shall be made available
10 for travel for Budget, Finance, and Award
11 Management;

12 (iv) \$186,400 shall be made available
13 for travel for Information and Resources
14 Management;

15 (v) \$370,000 shall be made available
16 for travel for the Office of the Director;
17 and

18 (vi) \$1,075,000 shall be made avail-
19 able for ethics activities under section 6;
20 and

21 (E) \$6,430,000 shall be made available for
22 the Office of Inspector General.

23 (3) TRAVEL LIMITATION.—None of the funds
24 authorized by this subsection may be used for travel
25 expenses except as provided in paragraph (2)(D)(i)

1 through (v). None of the funds authorized by clauses
2 (i) through (iv) of paragraph (2)(D) may be used for
3 travel expenses for personnel in the Office of the Di-
4 rector.

5 (c) FISCAL YEAR 2003.—

6 (1) IN GENERAL.—There are authorized to be
7 appropriated to the National Science Foundation
8 \$4,003,909,000 for fiscal year 2003.

9 (2) SPECIFIC ALLOCATIONS.—Of the amount
10 authorized under paragraph (1)—

11 (A) \$2,967,103,000 shall be made avail-
12 able to carry out Research and Related Activi-
13 ties;

14 (B) \$766,755,000 shall be made available
15 to carry out Education and Human Resources;

16 (C) \$92,700,000 shall be made available
17 for Major Research Equipment, of which—

18 (i) \$15,740,000 shall be made avail-
19 able for the EarthScope;

20 (ii) \$9,700,000 shall be made avail-
21 able for the Large Hadron Collider; and

22 (iii) \$27,000,000 shall be made avail-
23 able for the National Ecological Observ-
24 atory Network;

1 (D) \$170,728,000 shall be made available
2 for Salaries and Expenses; and

3 (E) \$6,623,000 shall be made available for
4 the Office of Inspector General.

5 (d) FISCAL YEAR 2004.—

6 (1) IN GENERAL.—There are authorized to be
7 appropriated to the National Science Foundation
8 \$4,124,027,000 for fiscal year 2004.

9 (2) SPECIFIC ALLOCATIONS.—Of the amount
10 authorized under paragraph (1)—

11 (A) \$3,056,116,000 shall be made avail-
12 able to carry out Research and Related Activi-
13 ties;

14 (B) \$789,757,000 shall be made available
15 to carry out Education and Human Resources;

16 (C) \$95,481,000 shall be made available
17 for Major Research Equipment, of which—

18 (i) \$13,170,000 shall be made avail-
19 able for the EarthScope; and

20 (ii) \$20,000,000 shall be made avail-
21 able for the National Ecological Observ-
22 atory Network;

23 (D) \$175,850,000 shall be made available
24 for Salaries and Expenses; and

1 (E) \$6,822,000 shall be made available for
2 the Office of Inspector General.

3 (e) LIMITATION.—Funds made available pursuant to
4 subsections (a) and (b) shall not be used to employ more
5 than 75 full-time equivalent positions in the Office of the
6 Director for either fiscal year 2001 or 2002.

7 **SEC. 3. PLANT GENOMICS.**

8 (a) PLANT GENOME AND GENE EXPRESSION RE-
9 SEARCH AND DEVELOPMENT CENTERS.—The National
10 Science Foundation is authorized to make grants for the
11 establishment of regional plant genome and gene expres-
12 sion research and development centers, the purpose of
13 which shall be to—

14 (1) develop capabilities in basic plant genome
15 research;

16 (2) extend basic plant genomics research
17 through plant breeding programs and accelerate its
18 application to crop improvement, particularly the de-
19 velopment and testing of new varieties of enhanced
20 food crops; and

21 (3) serve as centers for scientific and safety in-
22 formation on plant genomics.

23 (b) GRANT AWARDS.—Grant awards under this sec-
24 tion shall be made through an open, peer-reviewed com-
25 petition. When making awards, the National Science

1 Foundation shall ensure that as many different agronomic
2 environments as possible are represented.

3 (c) MATCHING FUNDS.—The National Science Foun-
4 dation shall not provide under this section more than 50
5 percent of the cost of establishing any research and devel-
6 opment center.

7 (d) AVAILABILITY OF FUNDS.—The National Science
8 Foundation may use up to—

9 (1) \$3,000,000 of the funds authorized by sec-
10 tion 2(a)(2)(A)(i) for fiscal year 2001;

11 (2) \$3,000,000 of the funds authorized by sec-
12 tion 2(b)(2)(A)(i) for fiscal year 2002;

13 (3) \$4,500,000 of the funds authorized by sec-
14 tion 2(c)(2)(A) for fiscal year 2003; and

15 (4) \$4,500,000 of the funds authorized by sec-
16 tion 2(d)(2)(A) for fiscal year 2004,

17 to carry out this section.

18 **SEC. 4. RESEARCH ON LEARNING.**

19 (a) RESEARCH ON LEARNING.—

20 (1) IN GENERAL.—The National Science Foun-
21 dation shall make grant awards to support research
22 on learning focusing on the following 4 areas:

23 (A) Brain research as a foundation for re-
24 search on human learning.

1 (B) Behavioral, cognitive, affective, and so-
2 cial aspects of human learning.

3 (C) Science, mathematics, engineering, and
4 technological learning in formal and informal
5 educational settings.

6 (D) Learning in complex educational sys-
7 tems.

8 The goals of this research shall be to integrate sci-
9 entific disciplines into research on learning, to gain
10 a better understanding of how research and edu-
11 cational practice can be reconciled, and to test,
12 evaluate, and refine hypotheses across disciplines.

13 (2) AVAILABILITY OF FUNDS.—Of the amounts
14 authorized under section 2(a)(1), (b)(1), (c)(1), and
15 (d)(1), \$25,000,000 for fiscal year 2001,
16 \$29,000,000 for fiscal year 2002, \$33,000,000 for
17 fiscal year 2003, and \$37,000,000 for fiscal year
18 2004 shall be available for carrying out this sub-
19 section.

20 (b) ESTABLISHMENT OF RESEARCH ON LEARNING
21 CENTERS.—

22 (1) ESTABLISHMENT.—The National Science
23 Foundation shall make grants for the establishment
24 of centers of research on learning. The purpose of
25 these centers shall be to bring together multidisci-

1 plinary teams of researchers to support the research
2 goals described in subsection (a)(1). Grant awards
3 under this subsection shall be made through an
4 open, peer-reviewed competition.

5 (2) AVAILABILITY OF FUNDS.—Of the amounts
6 authorized under section 2(a)(1), (b)(1), (c)(1), and
7 (d)(1), \$6,000,000 for fiscal year 2001, \$6,000,000
8 for fiscal year 2002, \$9,000,000 for fiscal year
9 2003, and \$9,000,000 for fiscal year 2004 shall be
10 available for carrying out this subsection.

11 (c) INTERAGENCY EDUCATION RESEARCH INITIA-
12 TIVE.—

13 (1) PARTICIPATION.—The National Science
14 Foundation is authorized to participate in the Inter-
15 agency Education Research Initiative.

16 (2) AVAILABILITY OF FUNDS.—Of the amounts
17 authorized under section 2(a)(1), (b)(1), (c)(1), and
18 (d)(1), \$25,000,000 for fiscal year 2001,
19 \$28,000,000 for fiscal year 2002, \$31,000,000 for
20 fiscal year 2003, and \$34,000,000 for fiscal year
21 2004 shall be available for carrying out this sub-
22 section.

23 (d) RESEARCH ON LEARNING CONFERENCE.—With-
24 in 6 months after the date of the enactment of this Act,
25 the National Science Foundation shall sponsor a con-

ference on human learning and education research, the goal of which shall be to bring together researchers from many disciplines, including the physical sciences, neurological sciences, social sciences, and education practitioners. The purposes of that conference shall be to review past research on learning, assess current research efforts, and develop recommendations to address outstanding research issues and to disseminate research results to education practitioners.

**SEC. 5. INTERGOVERNMENTAL PERSONNEL ACT ASSIGN-
EES.**

The National Science Foundation shall not, after the date of the enactment of this Act, enter into an arrangement under the Intergovernmental Personnel Act of 1970 for the detail of any of its employees to locations other than National Science Foundation facilities.

SEC. 6. ETHICS PROGRAM.

(a) ESTABLISHMENT.—The Director of the National Science Foundation shall establish a program providing for—

- (1) an external review of the ethics rules and procedures of the National Science Foundation;
- (2) after completion of the external review under paragraph (1), a revision of those rules and procedures as appropriate; and

1 (3) training of all National Science Foundation
2 employees on the ethics rules and procedures as re-
3 vised under paragraph (2).

4 (b) **REPORTS TO CONGRESS.**—The Director of the
5 National Science Foundation shall report to the Com-
6 mittee on Science of the House of Representatives, and
7 to the Committee on Health, Education, Labor, and Pen-
8 sions and the Committee on Commerce, Science, and
9 Transportation of the Senate, at least once every 6 months
10 on—

11 (1) the number of National Science Foundation
12 employees trained pursuant to subsection (a)(3); and

13 (2) the number and type of ethics violations de-
14 termined under the rules and procedures of the Na-
15 tional Science Foundation to have occurred, along
16 with a description of the resolution thereof.

17 **SEC. 7. TECHNICAL AMENDMENTS.**

18 The National Science Foundation Act of 1950 is
19 amended—

20 (1) in section 3(b) (42 U.S.C. 1862(b)), by
21 striking “including the Office of Technology Assess-
22 ment,”

23 (2) in section 5(e)(2) (42 U.S.C. 1864(e)(2)),
24 by striking “Labor and Human Resources” and in-

1 serting “Health, Education, Labor, and Pensions”;
2 and

3 (3) in section 13(a) (42 U.S.C. 1872(a)), by
4 striking “or the affidavit of allegiance to the United
5 States required by section 15(d)(2) of this Act”.

6 **SEC. 8. REPORTS ELIMINATION.**

7 Section 3003(a)(1) of the Federal Reports Elimination and Sunset Act of 1995 (31 U.S.C. 1113 note) does not apply to any report required to be submitted under any of the following provisions of law:

11 (1) Section 4(j)(1) of the National Science Foundation Act of 1950 (42 U.S.C. 1863(j)(1)).

13 (2) Section 36(f) of the Science and Engineering Equal Opportunities Act (42 U.S.C. 1885c(f)).

15 (3) Section 37 of the Science and Engineering Equal Opportunities Act (42 U.S.C. 1885d).

17 (4) Section 108 of the National Science Foundation Authorization Act for Fiscal Year 1986 (42 U.S.C. 1886).

20 (5) Section 101(a)(3) of the High-Performance Computing Act of 1991 (15 U.S.C. 5511(a)(3)).

22 (6) Section 3(a)(7) and (f) of the National Science Foundation Act of 1950 (42 U.S.C. 1862(a)(7) and (f)).

1 (7) Section 7(a) of the National Science Foun-
2 dation Authorization Act, 1977 (42 U.S.C. 1873
3 note).

○