

107TH CONGRESS
2D SESSION

S. 2817

To authorize appropriations for fiscal years 2003, 2004, 2005, 2006, and 2007 for the National Science Foundation, and for other purposes.

IN THE SENATE OF THE UNITED STATES

JULY 29, 2002

Mr. KENNEDY (for himself, Mr. HOLLINGS, Mr. BOND, and Ms. MIKULSKI) introduced the following bill; which was read twice and referred to the Committee on Health, Education, Labor, and Pensions

A BILL

To authorize appropriations for fiscal years 2003, 2004, 2005, 2006, and 2007 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 Doubling Act”.

6 **SEC. 2. DEFINITIONS.**

7 In this Act:

8 (1) BOARD.—The term “Board” means the Na-
9 tional Science Board established under section 2 of

1 the National Science Foundation Act of 1950 (42
2 U.S.C. 1861).

3 (2) DIRECTOR.—The term “Director” means
4 the Director of the National Science Foundation es-
5 tablished under section 2 of the National Science
6 Foundation Act of 1950 (42 U.S.C. 1861).

7 (3) ELIGIBLE APPLICANT.—The term “eligible
8 applicant” means—

9 (A) an institution of higher education;

10 (B) consortia of institutions of higher edu-
11 cation;

12 (C)(i) an institution of higher education or
13 consortia of such institutions; and

14 (ii) a nonprofit organization with dem-
15 onstrated experience in delivering science,
16 mathematics, engineering, or technology edu-
17 cation; or

18 (D)(i) an institution of higher education or
19 consortia of such institutions;

20 (ii) a nonprofit organization with dem-
21 onstrated experience in delivering science,
22 mathematics, engineering, or technology edu-
23 cation; and

24 (iii) State governments, local governments,
25 or private companies.

1 (4) FOUNDATION.—The term “Foundation”
2 means the National Science Foundation established
3 under section 2 of the National Science Foundation
4 Act of 1950 (42 U.S.C. 1861).

5 (5) INSTITUTION OF HIGHER EDUCATION.—The
6 term “institution of higher education” has the
7 meaning given such term in section 101(a) of the
8 Higher Education Act of 1965 (20 U.S.C. 1001(a)).

9 (6) NATIONAL RESEARCH FACILITY.—The term
10 “national research facility” means a research facility
11 funded by the Foundation which is available, subject
12 to appropriate policies allocating access, for use by
13 all scientists and engineers affiliated with research
14 institutions located in the United States.

15 **SEC. 3. FINDINGS.**

16 Congress finds the following:

17 (1) The National Science Foundation has made
18 major contributions during the past 50 years to
19 strengthen and sustain the Nation’s academic re-
20 search enterprise that is the envy of the world.

21 (2) The economic strength and national security
22 of the United States and the quality of life of all
23 Americans are grounded in the Nation’s scientific
24 and technological capabilities.

1 (3) The National Science Foundation carries
2 out an important function in supporting basic re-
3 search in all science and engineering disciplines and
4 in supporting science, mathematics, engineering, and
5 technology education at all levels.

6 (4) The research and education activities of the
7 National Science Foundation promote the discovery,
8 integration, dissemination, and application of new
9 knowledge in service to society and prepare future
10 generations of scientists, mathematicians, and engi-
11 neers who will be necessary to ensure America's
12 leadership in the global marketplace.

13 (5) The National Science Foundation must be
14 provided with sufficient resources to enable it to
15 carry out its responsibilities to develop intellectual
16 capital, strengthen the scientific infrastructure, inte-
17 grate research and education, enhance the delivery
18 of mathematics and science education in the United
19 States, and improve the technological literacy of all
20 people in the United States.

21 (6) The emerging global economic, scientific,
22 and technical environment challenges long-standing
23 assumptions about the dichotomy between domestic
24 and international policy, requiring the National
25 Science Foundation to play a more proactive role in

1 sustaining the competitive advantage of the United
2 States through superior research capabilities.

3 **SEC. 4. POLICY OBJECTIVES.**

4 In allocating resources made available under section
5 5, the Foundation shall have the following policy objec-
6 tives:

7 (1) To strengthen the Nation's lead in science
8 and technology by—

9 (A) increasing the national investment in
10 research in strategic areas;

11 (B) balancing the Nation's research port-
12 folio among the life sciences and fundamental
13 disciplines that are important for the continued
14 development of enabling technologies necessary
15 for sustained international competitiveness;

16 (C) expanding the pool of scientists and
17 engineers in the United States;

18 (D) modernizing the Nation's research in-
19 frastructure; and

20 (E) establishing and maintaining coopera-
21 tive international relationships with premier re-
22 search institutions, with the goal of such rela-
23 tionships being the exchange of personnel, data,
24 and information in an effort to alleviate prob-
25 lems common to the global community.

1 (2) To increase overall workforce skills by—

2 (A) improving the quality of mathematics
3 and science education, particularly in kinder-
4 garten through grade 12;

5 (B) providing access to information tech-
6 nology for all students;

7 (C) raising postsecondary enrollment rates
8 for underrepresented minorities;

9 (D) increasing access to higher education
10 for students from low-income households; and

11 (E) expanding technical training opportu-
12 nities at institutions of higher education.

13 (3) To strengthen innovation by—

14 (A) expanding the focus of competitiveness
15 and innovation policy at the regional and local
16 level;

17 (B) supporting initiatives and organiza-
18 tions that enhance and mobilize regional inno-
19 vation; and

20 (C) identifying best policy practices in fos-
21 tering innovation at the State, regional, and
22 local levels.

23 **SEC. 5. AUTHORIZATION OF APPROPRIATIONS.**

24 (a) FISCAL YEAR 2003.—

1 (1) IN GENERAL.—There are authorized to be
2 appropriated to the National Science Foundation
3 \$5,536,390,000 for fiscal year 2003.

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

6 (A) \$4,174,840,000 shall be made avail-
7 able to carry out research and related activities;

8 (B) \$1,006,250,000 shall be made avail-
9 able for education and human resources;

10 (C) \$152,900,000 shall be made available
11 for major research equipment and facilities con-
12 struction;

13 (D) \$194,700,000 shall be made available
14 for salaries and expenses; and

15 (E) \$7,700,000 shall be made available for
16 the Office of Inspector General.

17 (b) FISCAL YEAR 2004.—

18 (1) IN GENERAL.—There are authorized to be
19 appropriated to the National Science Foundation
20 \$6,390,832,000 for fiscal year 2004.

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

23 (A) \$4,842,814,000 shall be made avail-
24 able to carry out research and related activities;

1 (B) \$1,157,188,000 shall be made avail-
2 able for education and human resources;

3 (C) \$168,190,000 shall be made available
4 for major research equipment and facilities con-
5 struction;

6 (D) \$214,170,000 shall be made available
7 for salaries and expenses; and

8 (E) \$8,470,000 shall be made available for
9 the Office of Inspector General.

10 (c) FISCAL YEAR 2005.—

11 (1) IN GENERAL.—There are authorized to be
12 appropriated to the National Science Foundation
13 \$7,378,343,000 for fiscal year 2005.

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

16 (A) \$5,617,665,000 shall be made avail-
17 able to carry out research and related activities;

18 (B) \$1,330,766,000 shall be made avail-
19 able to carry out education and human re-
20 sources;

21 (C) \$185,009,000 shall be made available
22 for major research equipment and facilities con-
23 struction;

24 (D) \$235,587,000 shall be made available
25 for salaries and expenses; and

1 (E) \$9,317,000 shall be made available for
2 the Office of Inspector General.

3 (d) FISCAL YEAR 2006.—

4 (1) IN GENERAL.—There are authorized to be
5 appropriated to the National Science Foundation
6 \$8,519,776,000 for fiscal year 2006.

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

9 (A) \$6,516,491,000 shall be made avail-
10 able to carry out research and related activities;

11 (B) \$1,530,380,000 shall be made avail-
12 able to carry out education and human re-
13 sources;

14 (C) \$203,509,900 shall be made available
15 for major research equipment and facilities con-
16 struction;

17 (D) \$259,145,700 shall be made available
18 for salaries and expenses; and

19 (E) \$10,248,700 shall be made available
20 for the Office of Inspector General.

21 (e) FISCAL YEAR 2007.—

22 (1) IN GENERAL.—There are authorized to be
23 appropriated to the National Science Foundation
24 \$9,839,262,000 for fiscal year 2007.

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

3 (A) \$7,559,130,000 shall be made avail-
4 able to carry out research and related activities;

5 (B) \$1,759,938,000 shall be made avail-
6 able to carry out education and human re-
7 sources;

8 (C) \$223,860,900 shall be made available
9 for major research equipment and facilities con-
10 struction;

11 (D) \$285,060,300 shall be made available
12 for salaries and expenses; and

13 (E) \$11,273,570 shall be made available
14 for the Office of Inspector General.

15 **SEC. 6. SPECIFIC PROGRAM AUTHORIZATIONS.**

16 From amounts authorized to be appropriated under
17 section 5, the Director shall continue the following initia-
18 tives:

19 (1) INFORMATION TECHNOLOGY.—An informa-
20 tion technology research program to support com-
21 petitive, merit-based proposals for research, edu-
22 cation, and infrastructure support in areas related to
23 cybersecurity, terascale computing systems, soft-
24 ware, networking, scalability, communications, and
25 data management.

1 (2) NANOSCALE SCIENCE AND ENGINEERING.—

2 A nanoscale science and engineering research and
3 education program to support competitive, merit-
4 based proposals that emphasize research aimed at—

5 (A) discovering novel phenomena, proc-
6 esses, materials, and tools that address grand
7 challenges in materials, electronics,
8 optoelectronics and magnetics, manufacturing,
9 the environment, and healthcare; and

10 (B) supporting new interdisciplinary cen-
11 ters and networks of excellence, including
12 shared national user facilities, infrastructure,
13 research, and education activities on the soci-
14 etal implications of advances in nanoscale
15 science and engineering.

16 (3) PLANT GENOME RESEARCH.—A plant ge-
17 nome research program to support competitive,
18 merit-based proposals—

19 (A) that advance our understanding of the
20 structure, organization, and function of plant
21 genomes; and

22 (B) that accelerate the use of new knowl-
23 edge and innovative technologies toward a more
24 complete understanding of basic biological proc-

1 esses in plants, especially in economically im-
2 portant plants such as corn and soybeans.

3 (4) INNOVATION PARTNERSHIPS.—An innova-
4 tion partnerships program with the purpose of pro-
5 viding competitive, merit-based support for proposals
6 that seek to stimulate innovation at the regional
7 level through partnerships involving States, regional
8 governmental entities, local governmental entities,
9 industry, academic institutions, and other related or-
10 ganizations in strategically important fields of
11 science and technology.

12 (5) MATHEMATICS AND SCIENCE PARTNER-
13 SHIPS.—An education improvement initiative for
14 current teachers that provides eligible partnerships
15 with grants to model ways in which to enhance the
16 capacity of elementary schools and secondary
17 schools, particularly those in high-poverty urban and
18 rural areas, to provide challenging mathematics and
19 science curricula to all students through—

20 (A) the use of professional mathemati-
21 cians, scientists, and engineers both in and out-
22 side the classroom;

23 (B) the provision of stipends and techno-
24 logical materials (including computers, training,
25 and other support) for individuals identified by

1 local educational agencies as potential master
2 teachers, who such agencies assure shall—

3 (i) mentor and systematically assist
4 other teachers in mathematics and science
5 instruction and the use of technology; and

6 (ii) be provided with paid, sufficient
7 time to participate in eligible partnership
8 supported activities and those activities de-
9 scribed in clause (i);

10 (C) implementation of summer and aca-
11 demic year professional development institutes
12 that train teachers in mathematics and science
13 content areas and promising pedagogical tech-
14 niques;

15 (D) support for distance learning programs
16 in mathematics and science; and

17 (E) other activities the Director determines
18 will accomplish the goals of this paragraph.

19 (6) ROBERT C. NOYCE SCHOLARSHIP.—

20 (A) IN GENERAL.—Multi-year awards to
21 institutions of higher education to provide fu-
22 ture teachers who have not less than 2 years of
23 completed work toward a baccalaureate degree
24 in a mathematics or science area with scholar-

1 ships, stipends, and training toward teacher
2 certification or alternative certification.

3 (B) SELECTION.—An institution of higher
4 education that receives an award under this
5 paragraph shall provide scholarships, stipends,
6 and training to future teachers based on aca-
7 demic merit, with consideration given to the fi-
8 nancial need of such future teachers and the
9 goal of promoting participation of women, mi-
10 norities, and persons with disabilities.

11 (C) AMOUNT.—Scholarships and stipends
12 awarded pursuant to this paragraph shall be
13 equal to the lesser of \$7,500, or the cost of at-
14 tendance at the institution of higher education.

15 (D) SERVICE OBLIGATION.—Not later than
16 3 years after receiving a scholarship or stipend
17 under this paragraph, an individual shall—

18 (i) begin to undertake 2 years of
19 teaching mathematics or science in a high
20 poverty school;

21 (ii) provide the institution of higher
22 education attended by the individual with 2
23 years of certification of completed full time
24 employment as a mathematics or science
25 teacher in a high poverty school; and

1 (iii) if necessary return all relevant
2 funds, including interest, awarded pursu-
3 ant to this paragraph in the event of non-
4 compliance with the terms of this para-
5 graph, unless the Director provides for
6 partial or total waiver of the terms of this
7 subparagraph for individuals due to ex-
8 tremе hardship.

9 (7) SCIENCE, MATHEMATICS, ENGINEERING
10 AND TECHNOLOGY TALENT EXPANSION PROGRAM.—

11 (A) IN GENERAL.—A merit-based, multi-
12 year, competitive grant program for eligible ap-
13 plicants to increase the number of students
14 studying toward and receiving associate’s or
15 bachelor’s degrees in science, mathematics, en-
16 gineering, and technology.

17 (B) TYPES OF PROJECTS.—The types of
18 projects the Foundation may support under this
19 paragraph include those that promote high
20 quality—

21 (i) interdisciplinary teaching;

22 (ii) undergraduate-conducted re-
23 search;

24 (iii) mentor relationships for students
25 in underrepresented groups;

1 (iv) bridge programs that enable stu-
2 dents at community colleges to matriculate
3 directly into baccalaureate science, mathe-
4 matics, engineering, or technology pro-
5 grams;

6 (v) internships carried out in partner-
7 ship with industry; and

8 (vi) innovative uses of digital tech-
9 nologies, particularly at institutions of
10 higher education that serve high numbers
11 or percentages of economically disadvan-
12 taged students.

13 (C) PERFORMANCE ACCOUNTABILITY.—

14 (i) IN GENERAL.—In order to receive
15 a grant under this paragraph, an eligible
16 applicant shall establish benchmarks to in-
17 crease the number of students studying to-
18 ward and receiving associate's or bach-
19 elor's degrees in science, mathematics, en-
20 gineering, and technology.

21 (ii) CONTINUED FUNDING.—In order
22 to receive continued annual funding under
23 this paragraph, an eligible applicant shall
24 meet the benchmarks established under
25 clause (i).

1 (8) SECONDARY SCHOOL SYSTEMIC INITIA-
2 TIVE.—A merit-based, competitive grant program
3 for State educational agencies or local educational
4 agencies that supports the planning and implemen-
5 tation of agency-wide secondary school reform initia-
6 tives designed to prepare graduating secondary
7 school students to read and comprehend specialized
8 technical and scientific texts, such as computer
9 training materials or the science section of a major
10 newspaper, meet the mathematics and science edu-
11 cation needs of students at risk of not achieving
12 State academic achievement standards, reduce the
13 need for basic skill training by employers, and
14 heighten college completion rates, through—

15 (A) adoption of enriched mathematics and
16 science curricula for all students;

17 (B) strengthened teacher training in math-
18 ematics, science, and reading as it relates to
19 technical and specialized texts;

20 (C) creation of smaller learning commu-
21 nities, including initiatives that substantially re-
22 duce class size, support new small schools, or
23 small schools within schools;

24 (D) collaborations between State and local
25 secondary school systems and institutions of

1 higher education that align curricula and higher
2 education placement requirements; and

3 (E) other activities the Director determines
4 will accomplish the goals of this paragraph.

5 (9) EXPERIMENTAL PROGRAM TO STIMULATE
6 COMPETITIVE RESEARCH.—The Experimental Pro-
7 gram to Stimulate Competitive Research established
8 under section 113 of the National Science Founda-
9 tion Authorization Act of 1988 (42 U.S.C. 1862g)
10 as part of the Foundation’s crosscutting/inter-
11 disciplinary programs. The program shall provide for
12 activities, which may include research infrastructure
13 improvement grants, co-funding initiatives, and out-
14 reach initiatives.

15 (10) THE SCIENCE AND ENGINEERING EQUAL
16 OPPORTUNITIES ACT.—A comprehensive program
17 designed to advance the goals of the Science and
18 Engineering Equal Opportunities Act (42 U.S.C.
19 1885 et seq.), including programs to provide support
20 to minority serving institutions.

21 **SEC. 7. MAJOR RESEARCH INSTRUMENTATION.**

22 (a) REVIEW AND ASSESSMENT.—The Director shall
23 conduct a review and assessment of the major research
24 instrumentation program and, not later than 1 year after
25 the date of enactment of this Act, submit a report of find-

1 ings and recommendations to the Committee on Com-
2 merce, Science, and Transportation of the Senate, the
3 Committee on Health, Education, Labor, and Pensions of
4 the Senate, and the Committee on Science of the House
5 of Representatives. The report shall include—

6 (1) estimates of the needs, by major field of
7 science and engineering and by types of institutions
8 of higher education, for the types of research instru-
9 mentation that are eligible for acquisition under the
10 guidelines of the major research instrumentation
11 program;

12 (2) since the inception of the major research in-
13 strumentation program, the distribution of awards
14 and funding levels by year, by major field of science
15 and engineering, and by type of institution of higher
16 education for the program; and

17 (3) an analysis of the impact of the major re-
18 search instrumentation program on the research in-
19 strumentation needs that were documented in the
20 Foundation's 1994 survey of academic research in-
21 strumentation needs.

22 (b) OSTP ASSESSMENT.—The Director of the Office
23 of Science and Technology Policy shall—

24 (1) assess the need for and develop an inter-
25 agency program to establish fully equipped, state-of-

1 the-art university-based centers for interdisciplinary
 2 research and advanced instrumentation development;
 3 and

4 (2) submit a report, not later than 14 months
 5 after the date of enactment of this Act, that con-
 6 tains the assessment and the recommended inter-
 7 agency program developed under paragraph (1) to
 8 the Committee on Commerce, Science, and Trans-
 9 portation of the Senate, the Committee on Health,
 10 Education, Labor, and Pensions of the Senate, and
 11 the Committee on Science of the House of Rep-
 12 resentatives .

13 **SEC. 8. MAJOR RESEARCH EQUIPMENT AND FACILITIES**

14 **CONSTRUCTION PLAN.**

15 (a) **PRIORITIZATION OF PROPOSED MAJOR RE-**
 16 **SEARCH EQUIPMENT AND FACILITIES CONSTRUCTION.—**

17 (1) **DEVELOPMENT OF PRIORITIES.—**

18 (A) **LIST.—**The Director shall—

19 (i) develop a list indicating by number
 20 the relative priority for funding under the
 21 major research equipment and facilities
 22 construction account that the Director as-
 23 signs to each project the Board has ap-
 24 proved for inclusion in a future budget re-
 25 quest; and

1 (ii) submit the list described in clause
2 (i) to the Board for approval.

3 (B) UPDATES.—The Director shall update
4 the list prepared under subparagraph (A) each
5 time the Board approves a new project that
6 would receive funding under the major research
7 equipment and facilities construction account,
8 as necessary to prepare reports under para-
9 graph (2), and, from time to time, submit any
10 updated list to the Board for approval.

11 (2) ANNUAL REPORT.—Not later than 90 days
12 after the date of enactment of this Act, and not
13 later than each June 15 thereafter, the Director
14 shall transmit to Congress a report containing—

15 (A) the most recent Board-approved pri-
16 ority list developed under paragraph (1)(A);

17 (B) a description of the criteria used to de-
18 velop such list; and

19 (C) a description of the major factors for
20 each project that determined the ranking of
21 such project on the list, based on the applica-
22 tion of the criteria described pursuant to sub-
23 paragraph (B).

24 (3) CRITERIA.—The criteria described pursuant
25 to paragraph (2)(B) shall include, at a minimum—

- 1 (A) scientific merit;
- 2 (B) broad societal need and probable im-
- 3 pact;
- 4 (C) consideration of the results of formal
- 5 prioritization efforts by the scientific commu-
- 6 nity;
- 7 (D) readiness of plans for construction and
- 8 operation;
- 9 (E) the applicant's management and ad-
- 10 ministrative capacity of large research facilities;
- 11 (F) international and interagency commit-
- 12 ments; and
- 13 (G) the order in which projects were ap-
- 14 proved by the Board for inclusion in a future
- 15 budget request.

16 (b) FACILITIES PLAN.—

17 (1) IN GENERAL.—Section 201(a)(1) of the Na-

18 tional Science Foundation Authorization Act of 1998

19 (42 U.S.C. 1862l(a)(1)) is amended to read as fol-

20 lows:

21 “(1) IN GENERAL.—The Director shall prepare,

22 and include as part of the Foundation's annual

23 budget request to Congress, a plan for the proposed

24 construction of, and repair and upgrades to, national

1 research facilities, including full life-cycle cost infor-
2 mation.”.

3 (2) CONTENTS OF PLAN.—Section 201(a)(2) of
4 the National Science Foundation Authorization Act
5 of 1998 (42 U.S.C. 1862l(a)(2)) is amended—

6 (A) in subparagraph (A), by striking
7 “(1);” and inserting “(1), including costs for
8 instrumentation development;”;

9 (B) at the end of subparagraph (B), by
10 striking “and”;

11 (C) in subparagraph (C), by striking “con-
12 struction.” and inserting “construction;” and

13 (D) by adding at the end the following:

14 “(D) for each project funded under the
15 major research equipment and facilities con-
16 struction account—

17 “(i) estimates of the total project cost
18 (from planning to commissioning); and

19 “(ii) the source of funds, including
20 Federal funding identified by appropria-
21 tions category and non-Federal funding;

22 “(E) estimates of the full life-cycle cost of
23 each national research facility;

24 “(F) information on any plans to retire na-
25 tional research facilities; and

1 “(G) estimates of funding levels for grants
2 supporting research that will make use of each
3 national research facility.”.

4 (3) DEFINITION.—Section 2 of the National
5 Science Foundation Authorization Act of 1998 (42
6 U.S.C. 1862k note) is amended—

7 (A) by redesignating paragraphs (3)
8 through (5) as paragraphs (4) through (6), re-
9 spectively; and

10 (B) by inserting after paragraph (2) the
11 following:

12 “(3) FULL LIFE-CYCLE COST.—The term ‘full
13 life-cycle cost’ means all costs of development, pro-
14 curement, construction, operations and support, and
15 shut-down costs, without regard to funding source
16 and without regard to what entity manages the
17 project.”.

18 (c) PROJECT MANAGEMENT.—No national research
19 facility project funded under the major research equip-
20 ment and facilities construction account shall be managed
21 by an individual whose appointment to the Foundation is
22 temporary.

23 (d) BOARD APPROVAL OF MAJOR RESEARCH EQUIP-
24 MENT AND FACILITIES PROJECTS.—

1 (1) IN GENERAL.—The Board shall explicitly
2 approve any project to be funded out of the major
3 research equipment and facilities construction ac-
4 count before any funds may be obligated from such
5 account for such project.

6 (2) REPORT.—Not later than September 15 of
7 each fiscal year, the Board shall report to the Com-
8 mittee on Commerce, Science, and Transportation of
9 the Senate, the Committee on Health, Education,
10 Labor, and Pensions of the Senate, and the Com-
11 mittee on Science of the House of Representatives
12 on the conditions of any delegation of authority
13 under section 4 of the National Science Foundation
14 Act of 1950 (42 U.S.C. 1863) that relates to funds
15 appropriated for any project in the major research
16 equipment and facilities construction account.

17 **SEC. 9. ADMINISTRATIVE AMENDMENTS.**

18 (a) ADOPTION OF PROCEDURES FOR MEETINGS.—
19 Section 4(e) of the National Science Foundation Act of
20 1950 (42 U.S.C. 1863(e)), is amended by striking the sec-
21 ond and third sentences and inserting “The Board shall
22 adopt procedures governing the conduct of its meetings,
23 including a definition of a quorum and delivery of notice.”.

1 (b) CONFIDENTIALITY OF CERTAIN INFORMATION.—
2 Section 14(i) of the National Science Foundation Act of
3 1950 (42 U.S.C. 1873(i)) is amended to read as follows:

4 “(i) CONFIDENTIALITY OF CERTAIN INFORMA-
5 TION.—

6 “(1) IN GENERAL.—

7 “(A) NONDISCLOSURE.—Information sup-
8 plied to the Foundation or a contractor of the
9 Foundation in survey forms, questionnaires, or
10 similar instruments for purposes of section 3(a)
11 (5) or (6) by an individual, an industrial or
12 commercial organization, or an educational or
13 academic institution when the institution has
14 received a pledge of confidentiality from the
15 Foundation, shall not be disclosed to the public
16 unless the information has been transformed
17 into statistical or abstract formats that do not
18 allow for the identification of the supplier.

19 “(B) STATISTICAL OR RESEARCH PUR-
20 POSES.—Information that has not been trans-
21 formed into nonidentifiable formats as de-
22 scribed in subparagraph (A) may be used only
23 for statistical or research purposes.

24 “(C) IDENTITIES.—The identities of indi-
25 viduals and organizations supplying information

1 described in subparagraph (A) may not be dis-
2 closed to the public.

3 “(2) OBLIGATIONS OF RESEARCHERS.—In sup-
4 port of functions authorized by section 3(a) (5) or
5 (6), the Foundation may designate, at its discretion,
6 authorized persons, including employees of Federal,
7 State or local agencies or instrumentalities (includ-
8 ing local educational agencies) and employees of pri-
9 vate organizations, to have access, for statistical or
10 research purposes only, to identifiable information
11 collected pursuant to section 3(a) (5) or (6). No
12 such person may—

13 “(A) publish information collected pursu-
14 ant to section 3(a) (5) or (6) in such a manner
15 that either an individual, an industrial or com-
16 mercial organization, or an educational, aca-
17 demic, or other nonprofit institution that has
18 received a pledge of confidentiality from the
19 Foundation can be specifically identified;

20 “(B) permit anyone other than individuals
21 authorized by the Foundation to examine, in
22 identifiable form, data relating to an individual,
23 an industrial or commercial organization, or an
24 academic, educational, or other non-profit insti-

1 tution that has received a pledge of confiden-
2 tiality from the Foundation; or

3 “(C) knowingly and willfully request or ob-
4 tain any confidential information described in
5 paragraph (1) from the Foundation under false
6 pretenses.

7 “(3) PENALTY.—Violation of this subsection is
8 punishable by a fine of not more than \$10,000, im-
9 prisonment for not more than 5 years, or both.”.

10 **SEC. 10. REPORTS.**

11 (a) GRANT SIZE AND DURATION.—Not later than 6
12 months after the date of enactment of this Act, the Direc-
13 tor shall transmit to the Committee on Commerce,
14 Science, and Transportation of the Senate, the Committee
15 on Health, Education, Labor, and Pensions of the Senate,
16 and the Committee on Science of the House of Represent-
17 atives a report describing the impact that increasing the
18 average grant size and duration would have on minority
19 serving institutions and on institutions located in States
20 where the Foundation’s Experimental Program to Stimu-
21 late Competitive Research (established under section 113
22 of the National Science Foundation Authorization Act of
23 1988 (42 U.S.C. 1862g)) is carrying out activities.

24 (b) OPEN MEETINGS.—Not later than 6 months after
25 the date of enactment of this Act, the Chair of the Board

1 shall transmit to the Committee on Commerce, Science,
2 and Transportation of the Senate, the Committee on
3 Health, Education, Labor, and Pensions of the Senate,
4 and the Committee on Science of the House of Represent-
5 atives a report describing proposed procedures under
6 which the Board could conduct its meetings so as to en-
7 sure greater public access to its deliberations.

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