

108TH CONGRESS
1ST SESSION

S. 189

AN ACT

To authorize appropriations for nanoscience, nanoengineering, and nanotechnology research, 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 “21st Century
5 Nanotechnology Research and Development Act”.

1 **SEC. 2. NATIONAL NANOTECHNOLOGY PROGRAM.**

2 (a) NATIONAL NANOTECHNOLOGY PROGRAM.—The
3 President shall implement a National Nanotechnology
4 Program. Through appropriate agencies, councils, and the
5 National Nanotechnology Coordination Office established
6 in section 3, the Program shall—

7 (1) establish the goals, priorities, and metrics
8 for evaluation for Federal nanotechnology research,
9 development, and other activities;

10 (2) invest in Federal research and development
11 programs in nanotechnology and related sciences to
12 achieve those goals; and

13 (3) provide for interagency coordination of Fed-
14 eral nanotechnology research, development, and
15 other activities undertaken pursuant to the Pro-
16 gram.

17 (b) PROGRAM ACTIVITIES.—The activities of the Pro-
18 gram shall include—

19 (1) developing a fundamental understanding of
20 matter that enables control and manipulation at the
21 nanoscale;

22 (2) providing grants to individual investigators
23 and interdisciplinary teams of investigators;

24 (3) establishing a network of advanced tech-
25 nology user facilities and centers;

1 (4) establishing, on a merit-reviewed and com-
2 petitive basis, interdisciplinary nanotechnology re-
3 search centers, which shall—

4 (A) interact and collaborate to foster the
5 exchange of technical information and best
6 practices;

7 (B) involve academic institutions or na-
8 tional laboratories and other partners, which
9 may include States and industry;

10 (C) make use of existing expertise in
11 nanotechnology in their regions and nationally;

12 (D) make use of ongoing research and de-
13 velopment at the micrometer scale to support
14 their work in nanotechnology; and

15 (E) to the greatest extent possible, be es-
16 tablished in geographically diverse locations, en-
17 courage the participation of Historically Black
18 Colleges and Universities that are part B insti-
19 tutions as defined in section 322(2) of the
20 Higher Education Act of 1965 (20 U.S.C.
21 1061(2)) and minority institutions (as defined
22 in section 365(3) of that Act (20 U.S.C.
23 1067k(3))), and include institutions located in
24 States participating in the Experimental Pro-

1 gram to Stimulate Competitive Research
2 (EPSCoR);

3 (5) ensuring United States global leadership in
4 the development and application of nanotechnology;

5 (6) advancing the United States productivity
6 and industrial competitiveness through stable, con-
7 sistent, and coordinated investments in long-term
8 scientific and engineering research in
9 nanotechnology;

10 (7) accelerating the deployment and application
11 of nanotechnology research and development in the
12 private sector, including startup companies;

13 (8) encouraging interdisciplinary research, and
14 ensuring that processes for solicitation and evalua-
15 tion of proposals under the Program encourage
16 interdisciplinary projects and collaborations;

17 (9) providing effective education and training
18 for researchers and professionals skilled in the inter-
19 disciplinary perspectives necessary for
20 nanotechnology so that a true interdisciplinary re-
21 search culture for nanoscale science, engineering,
22 and technology can emerge;

23 (10) ensuring that ethical, legal, environmental,
24 and other appropriate societal concerns, including
25 the potential use of nanotechnology in enhancing

1 human intelligence and in developing artificial intel-
2 ligence which exceeds human capacity, are consid-
3 ered during the development of nanotechnology by—

4 (A) establishing a research program to
5 identify ethical, legal, environmental, and other
6 appropriate societal concerns related to
7 nanotechnology, and ensuring that the results
8 of such research are widely disseminated;

9 (B) requiring that interdisciplinary
10 nanotechnology research centers established
11 under paragraph (4) include activities that ad-
12 dress societal, ethical, and environmental con-
13 cerns;

14 (C) insofar as possible, integrating re-
15 search on societal, ethical, and environmental
16 concerns with nanotechnology research and de-
17 velopment, and ensuring that advances in
18 nanotechnology bring about improvements in
19 quality of life for all Americans; and

20 (D) providing, through the National
21 Nanotechnology Coordination Office established
22 in section 3, for public input and outreach to be
23 integrated into the Program by the convening
24 of regular and ongoing public discussions,
25 through mechanisms such as citizens' panels,

1 consensus conferences, and educational events,
2 as appropriate; and

3 (11) encouraging research on nanotechnology
4 advances that utilize existing processes and tech-
5 nologies.

6 (c) PROGRAM MANAGEMENT.—The National Science
7 and Technology Council shall oversee the planning, man-
8 agement, and coordination of the Program. The Council,
9 itself or through an appropriate subgroup it designates or
10 establishes, shall—

11 (1) establish goals and priorities for the Pro-
12 gram, based on national needs for a set of broad ap-
13 plications of nanotechnology;

14 (2) establish program component areas, with
15 specific priorities and technical goals, that reflect the
16 goals and priorities established for the Program;

17 (3) oversee interagency coordination of the Pro-
18 gram, including with the activities of the Defense
19 Nanotechnology Research and Development Pro-
20 gram established under section 246 of the Bob
21 Stump National Defense Authorization Act for Fis-
22 cal Year 2003 (Public Law 107–314) and the Na-
23 tional Institutes of Health;

24 (4) develop, within 12 months after the date of
25 enactment of this Act, and update every 3 years

1 thereafter, a strategic plan to guide the activities de-
2 scribed under subsection (b), meet the goals, prior-
3 ities, and anticipated outcomes of the participating
4 agencies, and describe—

5 (A) how the Program will move results out
6 of the laboratory and into application for the
7 benefit of society;

8 (B) the Program's support for long-term
9 funding for interdisciplinary research and devel-
10 opment in nanotechnology; and

11 (C) the allocation of funding for inter-
12 agency nanotechnology projects;

13 (5) propose a coordinated interagency budget
14 for the Program to the Office of Management and
15 Budget to ensure the maintenance of a balanced
16 nanotechnology research portfolio and an appro-
17 priate level of research effort;

18 (6) exchange information with academic, indus-
19 try, State and local government (including State and
20 regional nanotechnology programs), and other ap-
21 propriate groups conducting research on and using
22 nanotechnology;

23 (7) develop a plan to utilize Federal programs,
24 such as the Small Business Innovation Research
25 Program and the Small Business Technology Trans-

1 fer Research Program, in support of the activity
2 stated in subsection (b)(7);

3 (8) identify research areas that are not being
4 adequately addressed by the agencies' current re-
5 search programs and address such research areas;

6 (9) encourage progress on Program activities
7 through the utilization of existing manufacturing fa-
8 cilities and industrial infrastructures such as, but
9 not limited to, the employment of underutilized man-
10 ufacturing facilities in areas of high unemployment
11 as production engineering and research testbeds; and

12 (10) in carrying out its responsibilities under
13 paragraphs (1) through (9), take into consideration
14 the recommendations of the Advisory Panel, sugges-
15 tions or recommendations developed pursuant to
16 subsection (b)(10)(D), and the views of academic,
17 State, industry, and other appropriate groups con-
18 ducting research on and using nanotechnology.

19 (d) ANNUAL REPORT.—The Council shall prepare an
20 annual report, to be submitted to the Senate Committee
21 on Commerce, Science, and Transportation and the House
22 of Representatives Committee on Science, and other ap-
23 propriate committees, at the time of the President's budg-
24 et request to Congress, that includes—

1 (1) the Program budget, for the current fiscal
2 year, for each agency that participates in the Pro-
3 gram, including a breakout of spending for the de-
4 velopment and acquisition of research facilities and
5 instrumentation, for each program component area,
6 and for all activities pursuant to subsection (b)(10);

7 (2) the proposed Program budget for the next
8 fiscal year, for each agency that participates in the
9 Program, including a breakout of spending for the
10 development and acquisition of research facilities
11 and instrumentation, for each program component
12 area, and for all activities pursuant to subsection
13 (b)(10);

14 (3) an analysis of the progress made toward
15 achieving the goals and priorities established for the
16 Program;

17 (4) an analysis of the extent to which the Pro-
18 gram has incorporated the recommendations of the
19 Advisory Panel; and

20 (5) an assessment of how Federal agencies are
21 implementing the plan described in subsection
22 (c)(7), and a description of the amount of Small
23 Business Innovative Research and Small Business
24 Technology Transfer Research funds supporting the
25 plan.

1 **SEC. 3. PROGRAM COORDINATION.**

2 (a) IN GENERAL.—The President shall establish a
3 National Nanotechnology Coordination Office, with a Di-
4 rector and full-time staff, which shall—

5 (1) provide technical and administrative support
6 to the Council and the Advisory Panel;

7 (2) serve as the point of contact on Federal
8 nanotechnology activities for government organiza-
9 tions, academia, industry, professional societies,
10 State nanotechnology programs, interested citizen
11 groups, and others to exchange technical and pro-
12 grammatic information;

13 (3) conduct public outreach, including dissemi-
14 nation of findings and recommendations of the Advi-
15 sory Panel, as appropriate; and

16 (4) promote access to and early application of
17 the technologies, innovations, and expertise derived
18 from Program activities to agency missions and sys-
19 tems across the Federal Government, and to United
20 States industry, including startup companies.

21 (b) FUNDING.—The National Nanotechnology Co-
22 ordination Office shall be funded through interagency
23 funding in accordance with section 631 of Public Law
24 108–7.

25 (c) REPORT.—Within 90 days after the date of enact-
26 ment of this Act, the Director of the Office of Science and

1 Technology Policy shall report to the Senate Committee
2 on Commerce, Science, and Transportation, and the
3 House of Representatives Committee on Science on the
4 funding of the National Nanotechnology Coordination Of-
5 fice. The report shall include—

6 (1) the amount of funding required to ade-
7 quately fund the Office;

8 (2) the adequacy of existing mechanisms to
9 fund this Office; and

10 (3) the actions taken by the Director to ensure
11 stable funding of this Office.

12 **SEC. 4. ADVISORY PANEL.**

13 (a) IN GENERAL.—The President shall establish or
14 designate a National Nanotechnology Advisory Panel.

15 (b) QUALIFICATIONS.—The Advisory Panel estab-
16 lished or designated by the President under subsection (a)
17 shall consist primarily of members from academic institu-
18 tions and industry. Members of the Advisory Panel shall
19 be qualified to provide advice and information on
20 nanotechnology research, development, demonstrations,
21 education, technology transfer, commercial application, or
22 societal and ethical concerns. In selecting or designating
23 an Advisory Panel, the President may also seek and give
24 consideration to recommendations from the Congress, in-
25 dustry, the scientific community (including the National

1 Academy of Sciences, scientific professional societies, and
2 academia), the defense community, State and local govern-
3 ments, regional nanotechnology programs, and other ap-
4 propriate organizations.

5 (c) DUTIES.—The Advisory Panel shall advise the
6 President and the Council on matters relating to the Pro-
7 gram, including assessing—

8 (1) trends and developments in nanotechnology
9 science and engineering;

10 (2) progress made in implementing the Pro-
11 gram;

12 (3) the need to revise the Program;

13 (4) the balance among the components of the
14 Program, including funding levels for the program
15 component areas;

16 (5) whether the program component areas, pri-
17 orities, and technical goals developed by the Council
18 are helping to maintain United States leadership in
19 nanotechnology;

20 (6) the management, coordination, implementa-
21 tion, and activities of the Program; and

22 (7) whether societal, ethical, legal, environ-
23 mental, and workforce concerns are adequately ad-
24 dressed by the Program.

1 (d) REPORTS.—The Advisory Panel shall report, not
2 less frequently than once every 2 fiscal years, to the Presi-
3 dent on its assessments under subsection (c) and its rec-
4 ommendations for ways to improve the Program. The first
5 report under this subsection shall be submitted within 1
6 year after the date of enactment of this Act. The Director
7 of the Office of Science and Technology Policy shall trans-
8 mit a copy of each report under this subsection to the Sen-
9 ate Committee on Commerce, Science, and Technology,
10 the House of Representatives Committee on Science, and
11 other appropriate committees of the Congress.

12 (e) TRAVEL EXPENSES OF NON-FEDERAL MEM-
13 BERS.—Non-Federal members of the Advisory Panel,
14 while attending meetings of the Advisory Panel or while
15 otherwise serving at the request of the head of the Advi-
16 sory Panel away from their homes or regular places of
17 business, may be allowed travel expenses, including per
18 diem in lieu of subsistence, as authorized by section 5703
19 of title 5, United States Code, for individuals in the gov-
20 ernment serving without pay. Nothing in this subsection
21 shall be construed to prohibit members of the Advisory
22 Panel who are officers or employees of the United States
23 from being allowed travel expenses, including per diem in
24 lieu of subsistence, in accordance with existing law.

1 (f) EXEMPTION FROM SUNSET.—Section 14 of the
2 Federal Advisory Committee Act shall not apply to the
3 Advisory Panel.

4 **SEC. 5. TRIENNIAL EXTERNAL REVIEW OF THE NATIONAL**
5 **NANOTECHNOLOGY PROGRAM.**

6 (a) IN GENERAL.—The Director of the National
7 Nanotechnology Coordination Office shall enter into an ar-
8 rangement with the National Research Council of the Na-
9 tional Academy of Sciences to conduct a triennial evalua-
10 tion of the Program, including—

11 (1) an evaluation of the technical accomplish-
12 ments of the Program, including a review of whether
13 the Program has achieved the goals under the
14 metrics established by the Council;

15 (2) a review of the Program’s management and
16 coordination across agencies and disciplines;

17 (3) a review of the funding levels at each agen-
18 cy for the Program’s activities and the ability of
19 each agency to achieve the Program’s stated goals
20 with that funding;

21 (4) an evaluation of the Program’s success in
22 transferring technology to the private sector;

23 (5) an evaluation of whether the Program has
24 been successful in fostering interdisciplinary re-
25 search and development;

1 (6) an evaluation of the extent to which the
2 Program has adequately considered ethical, legal,
3 environmental, and other appropriate societal con-
4 cerns;

5 (7) recommendations for new or revised Pro-
6 gram goals;

7 (8) recommendations for new research areas,
8 partnerships, coordination and management mecha-
9 nisms, or programs to be established to achieve the
10 Program's stated goals;

11 (9) recommendations on policy, program, and
12 budget changes with respect to nanotechnology re-
13 search and development activities;

14 (10) recommendations for improved metrics to
15 evaluate the success of the Program in accom-
16 plishing its stated goals;

17 (11) a review of the performance of the Na-
18 tional Nanotechnology Coordination Office and its
19 efforts to promote access to and early application of
20 the technologies, innovations, and expertise derived
21 from Program activities to agency missions and sys-
22 tems across the Federal Government and to United
23 States industry;

24 (12) an analysis of the relative position of the
25 United States compared to other nations with re-

1 spect to nanotechnology research and development,
2 including the identification of any critical research
3 areas where the United States should be the world
4 leader to best achieve the goals of the Program; and

5 (13) an analysis of the current impact of
6 nanotechnology on the United States economy and
7 recommendations for increasing its future impact.

8 (b) STUDY ON MOLECULAR SELF-ASSEMBLY.—As
9 part of the first triennial review conducted in accordance
10 with subsection (a), the National Research Council shall
11 conduct a one-time study to determine the technical feasi-
12 bility of molecular self-assembly for the manufacture of
13 materials and devices at the molecular scale.

14 (c) STUDY ON THE RESPONSIBLE DEVELOPMENT OF
15 NANOTECHNOLOGY.—As part of the first triennial review
16 conducted in accordance with subsection (a), the National
17 Research Council shall conduct a one-time study to assess
18 the need for standards, guidelines, or strategies for ensur-
19 ing the responsible development of nanotechnology, includ-
20 ing, but not limited to—

21 (1) self-replicating nanoscale machines or de-
22 vices;

23 (2) the release of such machines in natural en-
24 vironments;

25 (3) encryption;

- 1 (4) the development of defensive technologies;
- 2 (5) the use of nanotechnology in the enhance-
3 ment of human intelligence; and
- 4 (6) the use of nanotechnology in developing ar-
5 tificial intelligence.

6 (d) EVALUATION TO BE TRANSMITTED TO CON-
7 GRESS.—The Director of the National Nanotechnology
8 Coordination Office shall transmit the results of any eval-
9 uation for which it made arrangements under subsection
10 (a) to the Advisory Panel, the Senate Committee on Com-
11 merce, Science, and Transportation and the House of Rep-
12 resentatives Committee on Science upon receipt. The first
13 such evaluation shall be transmitted no later than June
14 10, 2005, with subsequent evaluations transmitted to the
15 Committees every 3 years thereafter.

16 **SEC. 6. AUTHORIZATION OF APPROPRIATIONS.**

17 (a) NATIONAL SCIENCE FOUNDATION.—There are
18 authorized to be appropriated to the Director of the Na-
19 tional Science Foundation to carry out the Director's re-
20 sponsibilities under this Act—

- 21 (1) \$385,000,000 for fiscal year 2005;
- 22 (2) \$424,000,000 for fiscal year 2006;
- 23 (3) \$449,000,000 for fiscal year 2007; and
- 24 (4) \$476,000,000 for fiscal year 2008.

1 (b) DEPARTMENT OF ENERGY.—There are author-
2 ized to be appropriated to the Secretary of Energy to carry
3 out the Secretary’s responsibilities under this Act—

4 (1) \$317,000,000 for fiscal year 2005;

5 (2) \$347,000,000 for fiscal year 2006;

6 (3) \$380,000,000 for fiscal year 2007; and

7 (4) \$415,000,000 for fiscal year 2008.

8 (c) NATIONAL AERONAUTICS AND SPACE ADMINIS-
9 TRATION.—There are authorized to be appropriated to the
10 Administrator of the National Aeronautics and Space Ad-
11 ministration to carry out the Administrator’s responsibil-
12 ities under this Act—

13 (1) \$34,100,000 for fiscal year 2005;

14 (2) \$37,500,000 for fiscal year 2006;

15 (3) \$40,000,000 for fiscal year 2007; and

16 (4) \$42,300,000 for fiscal year 2008.

17 (d) NATIONAL INSTITUTE OF STANDARDS AND
18 TECHNOLOGY.—There are authorized to be appropriated
19 to the Director of the National Institute of Standards and
20 Technology to carry out the Director’s responsibilities
21 under this Act—

22 (1) \$68,200,000 for fiscal year 2005;

23 (2) \$75,000,000 for fiscal year 2006;

24 (3) \$80,000,000 for fiscal year 2007; and

25 (4) \$84,000,000 for fiscal year 2008.

1 (e) ENVIRONMENTAL PROTECTION AGENCY.—There
2 are authorized to be appropriated to the Administrator of
3 the Environmental Protection Agency to carry out the Ad-
4 ministrator’s responsibilities under this Act—

5 (1) \$5,500,000 for fiscal year 2005;

6 (2) \$6,050,000 for fiscal year 2006;

7 (3) \$6,413,000 for fiscal year 2007; and

8 (4) \$6,800,000 for fiscal year 2008.

9 **SEC. 7. DEPARTMENT OF COMMERCE PROGRAMS.**

10 (a) NIST PROGRAMS.—The Director of the National
11 Institute of Standards and Technology shall—

12 (1) as part of the Program activities under sec-
13 tion 2(b)(7), establish a program to conduct basic
14 research on issues related to the development and
15 manufacture of nanotechnology, including metrology;
16 reliability and quality assurance; processes control;
17 and manufacturing best practices; and

18 (2) utilize the Manufacturing Extension Part-
19 nership program to the extent possible to ensure
20 that the research conducted under paragraph (1)
21 reaches small- and medium-sized manufacturing
22 companies.

23 (b) CLEARINGHOUSE.—The Secretary of Commerce
24 or his designee, in consultation with the National
25 Nanotechnology Coordination Office and, to the extent

1 possible, utilizing resources at the National Technical In-
2 formation Service, shall establish a clearinghouse of infor-
3 mation related to commercialization of nanotechnology re-
4 search, including information relating to activities by re-
5 gional, State, and local commercial nanotechnology initia-
6 tives; transition of research, technologies, and concepts
7 from Federal nanotechnology research and development
8 programs into commercial and military products; best
9 practices by government, universities and private sector
10 laboratories transitioning technology to commercial use;
11 examples of ways to overcome barriers and challenges to
12 technology deployment; and use of manufacturing infra-
13 structure and workforce.

14 **SEC. 8. DEPARTMENT OF ENERGY PROGRAMS.**

15 (a) RESEARCH CONSORTIA.—

16 (1) DEPARTMENT OF ENERGY PROGRAM.—The
17 Secretary of Energy shall establish a program to
18 support, on a merit-reviewed and competitive basis,
19 consortia to conduct interdisciplinary nanotechnology
20 research and development designed to integrate
21 newly developed nanotechnology and microfluidic
22 tools with systems biology and molecular imaging.

23 (2) AUTHORIZATION OF APPROPRIATIONS.—Of
24 the sums authorized for the Department of Energy
25 under section 6(b), \$25,000,000 shall be used for

1 each fiscal year 2005 through 2008 to carry out this
2 section. Of these amounts, not less than
3 \$10,000,000 shall be provided to at least 1 consor-
4 tium for each fiscal year.

5 (b) RESEARCH CENTERS AND MAJOR INSTRUMENTA-
6 TION.—The Secretary of Energy shall carry out projects
7 to develop, plan, construct, acquire, operate, or support
8 special equipment, instrumentation, or facilities for inves-
9 tigators conducting research and development in
10 nanotechnology.

11 **SEC. 9. ADDITIONAL CENTERS.**

12 (a) AMERICAN NANOTECHNOLOGY PREPAREDNESS
13 CENTER.—The Program shall provide for the establish-
14 ment, on a merit-reviewed and competitive basis, of an
15 American Nanotechnology Preparedness Center which
16 shall—

17 (1) conduct, coordinate, collect, and disseminate
18 studies on the societal, ethical, environmental, edu-
19 cational, legal, and workforce implications of
20 nanotechnology; and

21 (2) identify anticipated issues related to the re-
22 sponsible research, development, and application of
23 nanotechnology, as well as provide recommendations
24 for preventing or addressing such issues.

1 (b) CENTER FOR NANOMATERIALS MANUFAC-
2 TURING.—The Program shall provide for the establish-
3 ment, on a merit reviewed and competitive basis, of a cen-
4 ter to—

5 (1) encourage, conduct, coordinate, commission,
6 collect, and disseminate research on new manufac-
7 turing technologies for materials, devices, and sys-
8 tems with new combinations of characteristics, such
9 as, but not limited to, strength, toughness, density,
10 conductivity, flame resistance, and membrane sepa-
11 ration characteristics; and

12 (2) develop mechanisms to transfer such manu-
13 facturing technologies to United States industries.

14 (c) REPORTS.—The Council, through the Director of
15 the National Nanotechnology Coordination Office, shall
16 submit to the Senate Committee on Commerce, Science,
17 and Transportation and the House of Representatives
18 Committee on Science—

19 (1) within 6 months after the date of enactment
20 of this Act, a report identifying which agency shall
21 be the lead agency and which other agencies, if any,
22 will be responsible for establishing the Centers de-
23 scribed in this section; and

1 (2) within 18 months after the date of enact-
2 ment of this Act, a report describing how the Cen-
3 ters described in this section have been established.

4 **SEC. 10. DEFINITIONS.**

5 In this Act:

6 (1) **ADVISORY PANEL.**—The term “Advisory
7 Panel” means the President’s National
8 Nanotechnology Advisory Panel established or des-
9 ignated under section 4.

10 (2) **NANOTECHNOLOGY.**—The term
11 “nanotechnology” means the science and technology
12 that will enable one to understand, measure, manip-
13 ulate, and manufacture at the atomic, molecular,
14 and supramolecular levels, aimed at creating mate-
15 rials, devices, and systems with fundamentally new
16 molecular organization, properties, and functions.

17 (3) **PROGRAM.**—The term “Program” means
18 the National Nanotechnology Program established
19 under section 2.

20 (4) **COUNCIL.**—The term “Council” means the
21 National Science and Technology Council or an ap-
22 propriate subgroup designated by the Council under
23 section 2(c).

24 (5) **ADVANCED TECHNOLOGY USER FACILITY.**—
25 The term “advanced technology user facility” means

1 a nanotechnology research and development facility
2 supported, in whole or in part, by Federal funds
3 that is open to all United States researchers on a
4 competitive, merit-reviewed basis.

5 (6) PROGRAM COMPONENT AREA.—The term
6 “program component area” means a major subject
7 area established under section 2(c)(2) under which
8 is grouped related individual projects and activities
9 carried out under the Program.

Passed the Senate November 18, 2003.

Attest:

Secretary.

108TH CONGRESS
1ST SESSION

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AN ACT

To authorize appropriations for nanoscience, nano-engineering, and nanotechnology research, and for other purposes.