

119TH CONGRESS
1ST SESSION

H. R. 1350

To provide for Department of Energy and National Science Foundation
research and development coordination, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

FEBRUARY 13, 2025

Ms. STEVENS (for herself and Mr. BAIRD) introduced the following bill; which
was referred to the Committee on Science, Space, and Technology

A BILL

To provide for Department of Energy and National Science
Foundation research and development coordination, 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 “DOE and NSF Inter-
5 agency Research Act”.

6 **SEC. 2. DEPARTMENT OF ENERGY AND NATIONAL SCIENCE**
7 **FOUNDATION RESEARCH AND DEVELOPMENT**
8 **COORDINATION.**

9 (a) IN GENERAL.—The Secretary of Energy (in this
10 section referred to as the “Secretary”) and the Director

1 of the National Science Foundation (in this section re-
2 ferred to as the “Director”) shall carry out cross-cutting
3 and collaborative research and development activities fo-
4 cused on the joint advancement of Department of Energy
5 and National Science Foundation mission requirements
6 and priorities.

7 (b) MEMORANDUM OF UNDERSTANDING.—The Sec-
8 retary and the Director shall coordinate the activities
9 under subsection (a) through the establishment of a
10 memorandum of understanding, or other appropriate
11 interagency agreement. Such memorandum or agreement,
12 as the case may be, shall require the use of a competitive,
13 merit-reviewed process, which considers applications from
14 Federal agencies, National Laboratories, institutions of
15 higher education, non-profit institutions, and other appro-
16 priate entities.

17 (c) COORDINATION.—In carrying out the activities
18 under subsection (a), the Secretary and the Director
19 may—

20 (1) conduct collaborative research in a variety
21 of focus areas, such as—

22 (A) basic plasma science and engineering,
23 including applications in astrophysics, materials
24 science, fusion science, and accelerator science;

1 (B) fundamental biological and computa-
2 tional science and engineering, including com-
3 putational neuroscience and neuromorphic com-
4 puting, including in collaboration with the pro-
5 gram authorized under section 306 of the De-
6 partment of Energy Research and Innovation
7 Act (42 U.S.C. 18644);

8 (C) modeling and simulation, machine
9 learning, artificial intelligence, data assimila-
10 tion, large-scale data analytics, predictive anal-
11 ysis, and advanced computational, storage, and
12 networking capabilities in order to optimize al-
13 gorithms for purposes related to energy and cli-
14 mate;

15 (D) quantum information sciences, includ-
16 ing quantum computing and quantum network
17 infrastructure, including in collaboration with
18 the programs authorized under sections 403
19 and 404 of the National Quantum Initiative Act
20 (15 U.S.C. 8853 and 8854);

21 (E) energy and materials science and engi-
22 neering, including artificial photosynthesis,
23 plasma, solar fuels, and fusion, including in col-
24 laboration with the programs authorized under
25 sections 303 and 307 of the Department of En-

1 ergy Research and Innovation Act (42 U.S.C.
2 18641 and 18645), and section 973 of the En-
3 ergy Policy Act of 2005 (42 U.S.C. 16313);

4 (F) advanced manufacturing technologies,
5 including efficient storage systems and alter-
6 natives to high-temperature processing, for the
7 purposes of optimizing energy consumption, in-
8 cluding in collaboration with the program au-
9 thorized under section 975 of the Department
10 of Energy Research and Innovation Act (42
11 U.S.C. 16315);

12 (G) microelectronics, including novel chip
13 architectures, memory systems, and intercon-
14 nects; and

15 (H) advanced physics, including high en-
16 ergy and particle physics, accelerator research
17 and development, and high performance com-
18 putational tools, including in collaboration with
19 the programs authorized under section 303 of
20 the Department of Energy Research and Inno-
21 vation Act (42 U.S.C. 18641);

22 (2) promote collaboration, open community-
23 based development, and data and information shar-
24 ing between Federal agencies, National Labora-
25 tories, institutions of higher education, nonprofit in-

1 stitutions, and other appropriate entities by pro-
2 viding the necessary access and secure data and in-
3 formation transfer capabilities;

4 (3) support research infrastructure, including
5 new facilities and equipment, as the Secretary and
6 Director determine necessary; and

7 (4) organize education, training, and research
8 initiatives relating to STEM education and work-
9 force development, including—

10 (A) internships, fellowships, and other re-
11 search or work-based learning opportunities;

12 (B) educational programming for students
13 at all levels, especially experiential and project-
14 based learning opportunities; and

15 (C) professional development opportunities
16 for educators and researchers.

17 (d) AGREEMENTS.—In carrying out the activities
18 under subsection (a), the Secretary and the Director are
19 authorized to—

20 (1) carry out reimbursable agreements between
21 the Department of Energy, the National Science
22 Foundation, and other entities in order to maximize
23 the effectiveness of research and development; and

24 (2) collaborate with other Federal agencies, as
25 appropriate.

1 (e) REPORT.—Not later than two years after the date
2 of the enactment of this section, the Secretary and the
3 Director shall submit to the Committee on Science, Space,
4 and Technology of the House of Representatives and the
5 Committee on Energy and Natural Resources and the
6 Committee on Commerce, Science, and Transportation of
7 the Senate a report detailing the following:

8 (1) Interagency coordination between each Fed-
9 eral agency involved in the research and development
10 activities carried out under this section.

11 (2) Potential opportunities to expand the tech-
12 nical capabilities of the Department of Energy and
13 the National Science Foundation.

14 (3) Collaborative research achievements.

15 (4) Areas of future mutually beneficial suc-
16 cesses.

17 (5) Continuation of coordination activities be-
18 tween the Department of Energy and the National
19 Science Foundation.

20 (f) RESEARCH SECURITY.—The activities authorized
21 under this section shall be applied in a manner consistent
22 with subtitle D of title VI of the Research and Develop-
23 ment, Competition, and Innovation Act (enacted as divi-
24 sion B of Public Law 117–167; 42 U.S.C. 19231 et seq.).

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