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(Original Signature of Member)

119TH CONGRESS
2D SESSION

H. R. _____

To amend the Department of Energy Research and Innovation Act to enhance support for certain fusion energy commercial application activities, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

Ms. LOFGREN introduced the following bill; which was referred to the Committee on _____

A BILL

To amend the Department of Energy Research and Innovation Act to enhance support for certain fusion energy commercial application activities, 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; TABLE OF CONTENTS.**

4 (a) **SHORT TITLE.**—This Act may be cited as the
5 “American Leadership in Fusion Act”.

6 (b) **TABLE OF CONTENTS.**—The table of contents for
7 this Act is as follows:

Sec. 1. Short title; table of contents.

TITLE I—FUSION ENERGY ACTIVITIES

- Sec. 101. Fusion energy research, development, and demonstration activities.
Sec. 102. Graded review for partnerships with National Laboratories.
Sec. 103. Reestablishment of Department of Energy office relating to fusion.

TITLE II—STEM EDUCATION AND SKILLED TECHNICAL
WORKFORCE FOR FUSION

- Sec. 201. Fusion education and skilled technical workforce activities.
Sec. 202. Fusion education and workforce coordination hub.
Sec. 203. Definitions.
Sec. 204. Authorization of appropriations.

1 **TITLE I—FUSION ENERGY**
2 **ACTIVITIES**
3 **SEC. 101. FUSION ENERGY RESEARCH, DEVELOPMENT, AND**
4 **DEMONSTRATION ACTIVITIES.**

5 Section 307 of the Department of Energy Research
6 and Innovation Act (42 U.S.C. 18645; Public Law 115–
7 246) is amended—

8 (1) by redesignating subsections (j), (k), (l),
9 (m), (n), (o), (p), (q), and (r) as subsections (o), (l),
10 (p), (q), (r), (s), (t), (u), and (x), respectively;

11 (2) in subsection (a)—

12 (A) by striking “section 209 of the Depart-
13 ment of Energy Organization Act (42 U.S.C.
14 7139) and”; and

15 (B) by inserting “, support activities that
16 seek to demonstrate a sustained burning plas-
17 ma in a fusion device,” after “fusion applica-
18 tions”;

1 (3) except in paragraph (2)(I) of subsection (r),
2 as so redesignated, by striking “Director” each place
3 it appears and inserting “Secretary”;

4 (4) by amending subsections (b) through (g) to
5 read as follows:

6 “(b) FUSION MATERIALS, BLANKET, AND FUEL
7 CYCLE RESEARCH AND DEVELOPMENT.—

8 “(1) IN GENERAL.—As part of the activities au-
9 thorized in section 978 of the Energy Policy Act of
10 2005 (42 U.S.C. 16318) the Secretary shall carry
11 out research and development activities to—

12 “(A) identify, characterize, and dem-
13 onstrate materials that can endure the neutron,
14 plasma, heat fluxes, and corrosion expected in
15 a fusion energy system;

16 “(B) address challenges to establishing
17 sustainable fuel cycles for fusion energy sys-
18 tems, including the development of blankets for
19 fuel breeding;

20 “(C) manage materials and byproduct that
21 arise from fusion energy systems, including—

22 “(i) characterizing activated and
23 tritiated materials;

24 “(ii) developing disposal pathways for
25 fusion-relevant materials;

1 “(iii) recycling and reusing activate
2 and tritiated materials;

3 “(iv) classifying fusion-relevant waste;
4 and

5 “(v) planning for the decommissioning
6 of fusion facilities;

7 “(D) when appropriate, leverage public-pri-
8 vate partnerships and collaborate with inter-
9 national partners to maximize the impact of the
10 investment of Federal resources to accelerate
11 the commercialization of fusion power; and

12 “(E) coordinate research and development
13 activities carried out under this section with the
14 milestone-based fusion energy development pro-
15 gram established under subsection (i), the dem-
16 onstration program under subsection (j), and
17 other relevant public-private partnerships.

18 “(2) FUNDING.—

19 “(A) FISCAL YEAR 2027.—There is appro-
20 priated to the Secretary \$800,000,000, to re-
21 main available until expended, for fiscal year
22 2027 to carry out activities described in para-
23 graph (1).

24 “(B) AUTHORIZATION OF APPROPRIA-
25 TIONS.—Out of funds authorized to be appro-

1 pried under subsection (x), there is authorized
2 to be appropriated to the Secretary
3 \$150,000,000 for each of fiscal years 2027
4 through 2031 to carry out activities described
5 in paragraph (1).

6 “(c) SUPPLY CHAIN FOR FUSION TECHNOLOGIES.—

7 “(1) IN GENERAL.—The Secretary, in collabo-
8 ration with the Secretary of Commerce, shall carry
9 out research, development, demonstration, and com-
10 mercial application activities to establish reliable
11 supply chains for critical fusion energy manufac-
12 turing equipment and other critical fusion energy
13 technologies, including the following:

14 “(A) High temperature superconducting
15 magnets.

16 “(B) Lasers and components of such lasers
17 relevant to fusion energy systems.

18 “(C) Systems that inject and track targets
19 in a fusion chamber.

20 “(D) Systems related to the precision of
21 manufacturing fusion targets.

22 “(E) Fusion chambers or vacuum vessels,
23 including any component of such chambers or
24 vessels.

25 “(F) Blanket systems.

1 “(G) Fuel production, handling, and stor-
2 age systems and components of such systems.

3 “(H) Heating systems.

4 “(I) Cooling system components.

5 “(J) High-power capacitors and compo-
6 nents of such capacitors.

7 “(K) Plasma compression systems.

8 “(L) High-power switches.

9 “(M) High-voltage conductors and
10 insulators.

11 “(N) Plasma formation devices.

12 “(O) Dielectric fluids and systems.

13 “(P) Controls equipment.

14 “(Q) Any other technology identified by
15 the Secretary.

16 “(2) FUNDING.—There is appropriated to the
17 Secretary \$100,000,000, to remain available until
18 expended, for fiscal year 2027 to carry out activities
19 described in paragraph (1).

20 “(d) TOKAMAK AND STELLARATOR RESEARCH AND
21 DEVELOPMENT.—The Secretary shall support research
22 and development activities and facility operations to opti-
23 mize the tokamak and stellarator approaches to fusion en-
24 ergy.

1 “(e) INERTIAL FUSION RESEARCH AND DEVELOP-
2 MENT.—

3 “(1) IN GENERAL.—The Director shall carry
4 out a program of research and technology develop-
5 ment in inertial fusion for energy applications, in-
6 cluding ion beam, laser, and pulsed power fusion
7 systems.

8 “(2) ACTIVITIES.—As part of the program de-
9 scribed in paragraph (1), the Director shall support
10 activities at and partnerships with universities and
11 the National Laboratories to—

12 “(A) develop novel target designs;

13 “(B) support modeling of various inertial
14 fusion energy concepts and systems;

15 “(C) develop diagnostic tools; and

16 “(D) improve inertial fusion energy driver
17 technologies.

18 “(3) AUTHORIZATION OF APPROPRIATIONS.—
19 Out of funds authorized to be appropriated under
20 subsection (x), there is authorized to be appro-
21 priated to the Secretary to carry out the activities
22 described in this subsection \$50,000,000 for each of
23 fiscal years 2027 through 2031.

24 “(f) ALTERNATIVE CONCEPTS.—

1 “(1) IN GENERAL.—The Secretary shall sup-
2 port research and development activities and facility
3 operations at institutions of higher education, Na-
4 tional Laboratories, and private facilities in the
5 United States for a portfolio of alternative fusion en-
6 ergy concepts that may provide solutions to signifi-
7 cant challenges to the establishment of a commercial
8 fusion power plant, prioritized based on the ability
9 of the United States to play a leadership role in the
10 international fusion research community.

11 “(2) ACTIVITIES.—Fusion energy concepts and
12 activities explored under paragraph (1) may include
13 the following:

14 “(A) Field-reversed configuration concepts.

15 “(B) Levitated dipole concepts.

16 “(C) Magnetic mirror concepts.

17 “(D) Magnetized target fusion energy con-
18 cepts.

19 “(E) Other promising fusion energy con-
20 cepts identified by the Secretary that are not
21 otherwise supported by the Secretary under
22 subsections (d) and (e).

23 “(3) AUTHORIZATION OF APPROPRIATIONS.—
24 Out of funds authorized to be appropriated under
25 subsection (x), there is authorized to be appro-

1 priated to the Secretary \$50,000,000 for each of fis-
2 cal years 2027 through 2031 to carry out this sub-
3 section.

4 “(g) COORDINATION WITH ARPA-E.—The Director
5 shall coordinate with the Director of the Advanced Re-
6 search Projects Agency-Energy (referred to in this sub-
7 section as “ARPA-E”) to—

8 “(1) assess the potential for any fusion energy
9 project supported by ARPA-E to represent a prom-
10 ising approach to a commercially viable fusion power
11 plant;

12 “(2) determine whether the results of any fu-
13 sion energy project supported by ARPA-E merit the
14 support of follow-on research activities carried out
15 by the Office of Fusion and

16 “(3) avoid the unintentional duplication of ac-
17 tivities.”;

18 (5) in subsection (i)—

19 (A) in paragraph (2)—

20 (i) in the heading, by striking “PUR-
21 POSE” and inserting “ACTIVITIES”;

22 (ii) by striking “The purpose of the
23 program established by paragraph (1) shall
24 be to” and inserting the following:

1 “(A) IN GENERAL.—The program estab-
2 lished by paragraph (1) shall”; and

3 (iii) by adding at the end the fol-
4 lowing new subparagraph:

5 “(B) FUNDING.—In addition to amounts
6 otherwise available, there is appropriated to the
7 Secretary \$2,000,000,000 for fiscal year 2027,
8 to remain available until expended, to carry out
9 activities pursuant to this subsection.”; and

10 (B) by striking paragraph (10);

11 (6) by inserting after subsection (i) the fol-
12 lowing new subsections:

13 “(j) MILESTONE-BASED DEMONSTRATION PRO-
14 GRAM.—

15 “(1) IN GENERAL.—Not later than 6 months
16 after the date of the enactment of this subsection,
17 the Secretary shall carry out a program to dem-
18 onstrate a variety of fusion power technologies, in-
19 cluding such technologies that generate the fol-
20 lowing:

21 “(A) Electricity.

22 “(B) Thermal energy for cogeneration, in-
23 dustrial purposes, district energy, community
24 heating, and desalination.

25 “(C) Hydrogen.

1 “(D) Radioisotopes.

2 “(2) ELIGIBILITY.—

3 “(A) IN GENERAL.—Any non-public entity,
4 or consortia thereof, is eligible to participate in
5 the program carried out under paragraph (1)
6 provided that the Secretary has determined
7 such entity, or consortia thereof, has the nec-
8 essary resources and expertise to construct a
9 fusion pilot plant.

10 “(B) PARTNERSHIPS.—An entity described
11 in subparagraph (A) may partner with a public
12 entity to carry out this section.

13 “(3) REQUIREMENTS.—In carrying out the
14 demonstration program under paragraph (1), the
15 Secretary shall carry out the following:

16 “(A) Request proposals from eligible enti-
17 ties, as determined by the Secretary under sub-
18 paragraph (A) of paragraph (2), that include
19 proposed technical and commercial application
20 milestones, including estimated timelines relat-
21 ing to and total costs for the construction of a
22 fusion pilot plant.

23 “(B) Establish criteria for the evaluation
24 of any such proposal, including relating to the
25 following:

1 “(i) The likelihood that the operating
2 cost of a commercial unit related to a pro-
3 posed fusion pilot plant is cost competitive
4 in a relevant market.

5 “(ii) The technology readiness level of
6 a proposed fusion power technology related
7 to such plant.

8 “(iii) The technical abilities and quali-
9 fication of such an eligible entity to dem-
10 onstrate a proposed fusion pilot plant.

11 “(iv) The business model, commercial
12 expertise, and financial qualifications of
13 such an eligible entity.

14 “(v) The capacity of such an eligible
15 entity to satisfy cost-share requirements of
16 the Department.

17 “(C) Establish by mutual agreement with
18 an eligible entity selected by the Secretary the
19 following:

20 “(i) A rigorous technical and financial
21 review process to develop and make pub-
22 licly accessible milestones for such eligible
23 entity.

1 “(ii) A predetermined amount to be
2 awarded by the Secretary to such eligible
3 entity upon satisfaction of such milestones.

4 “(D) Award funding to such an eligible en-
5 tity—

6 “(i) in the predetermined amount es-
7 tablished under subparagraph (C)(ii); or

8 “(ii) in an amount for an expense the
9 Secretary determines to be reimbursable,
10 in accordance with any terms negotiated
11 for such funding.

12 “(E) Communicate regularly with selected
13 eligible entities and, if the Secretary deems ap-
14 propriate, exercise small amounts of flexibility
15 for technical milestones as projects mature.

16 “(4) AWARDS.—For the program established
17 under paragraph (1)—

18 “(A) a selected eligible entity shall be re-
19 sponsible for all costs until milestones referred
20 to in paragraph (3)(C) are achieved, reviewed,
21 and verified by the Department;

22 “(B) an award provided by the Secretary
23 for the successful achievement of a milestone
24 shall not exceed fifty percent of the total cost

1 incurred by the selected eligible entity to
2 achieve the milestone;

3 “(C) if a selected eligible entity does not
4 meet the milestones, the Secretary may end the
5 partnership with an award recipient and use the
6 remaining funds in the ended agreement for
7 new or existing projects carried out under this
8 section; and

9 “(D) consistent with the existing authori-
10 ties of the Department, the Secretary may end
11 the partnership with an selected eligible entity
12 for cause during the performance period.

13 “(5) CONSULTATION.—In carrying out the
14 demonstration program under paragraph (1), and in
15 a manner that protects any confidential information
16 of a selected eligible entity, the Secretary shall con-
17 sult with relevant experts, including the following:

18 “(A) Experts from the following:

19 “(i) Private fusion industry entities,
20 and any suppliers and vendors of such en-
21 tities.

22 “(ii) National Laboratories.

23 “(iii) Environmental and public health
24 and safety.

25 “(iv) Institutions of higher education.

1 “(B) Customers and end users of fusion
2 power, including electric utilities.

3 “(C) Potential end users of thermal energy
4 or other fusion power technologies described in
5 paragraph (1).

6 “(6) FUSION PILOT PLANT DEFINED.—In this
7 subsection, the term ‘fusion pilot plant’ means a fu-
8 sion facility that can demonstrate at least 50
9 megawatts of net electricity supplied to the electric
10 grid for more than 3 continuous hours, with the goal
11 of demonstrating the suitability of the design of such
12 facility for commercial application of fusion power.

13 “(7) FUNDING.—There is appropriated
14 \$3,000,000,000 to the Secretary to carry out the
15 program under this subsection until expended.

16 “(k) AUTHORIZATION OF APPROPRIATIONS FOR
17 MILESTONE-BASED PROGRAMS.—Out of funds authorized
18 to be appropriated under subsection (x), there is author-
19 ized to be appropriated to the Secretary, to remain avail-
20 able until expended, \$150,000,000 for each of fiscal years
21 2027 through 2031, to carry out subsections (i) and (j).”;

22 (7) by inserting after subsection (l), as so re-
23 designated, the following new subsections:

24 “(m) INTELLECTUAL PROPERTY PROTECTIONS.—
25 Unless otherwise required by chapter 18 of title 35,

1 United States Code, or the Stevenson-Wydler Technology
2 Innovation Act of 1980 (15 U.S.C. 3701 et seq.)—

3 “(1) an eligible entity and any third-party con-
4 tractor or subcontractor of such eligible entity shall
5 retain all rights to—

6 “(A) background intellectual property de-
7 veloped outside or prior to the signature of
8 agreements negotiated for an individual award
9 under subsection (i) or subsection (j), as the
10 case may be; or

11 “(B) intellectual property that may be de-
12 veloped by eligible entities as a result of partici-
13 pating in either such program; and

14 “(2) the Department may not—

15 “(A) obtain any right to any intellectual
16 property described in subparagraph (A) or (B)
17 of paragraph (1), either for the Department or
18 any other Federal department or agency; or

19 “(B) implement or enforce any policy,
20 form, or agreement, if such policy, form, or
21 agreement contains provisions that conveys to
22 the Department or any other Federal depart-
23 ment or agency any such right.

24 “(n) DOMESTIC CONTENT REQUIREMENTS WAIV-
25 ER.—

1 “(1) IN GENERAL.—The Secretary may not im-
2 pose any requirement on a selected eligible entity de-
3 scribed in subsection (i) or (j), as the case may be,
4 with respect to an award or funding, respectively,
5 under such subsections to utilize materials, articles,
6 components, or other supplies produced or substan-
7 tially manufactured in the United States, unless the
8 Secretary makes a determination that such mate-
9 rials, articles, components, or other supplies, as the
10 case may be, are available in the United States—

11 “(A) in sufficient quantities,

12 “(B) at a reasonable price, compared to
13 materials, articles, components, or other sup-
14 plies available, and

15 “(C) are of sufficient quality,
16 for the eligible entity to utilize such award or fund-
17 ing, as the case may be.

18 “(2) WAIVER PETITION.—

19 “(A) IN GENERAL.—A selected eligible en-
20 tity described in paragraph (1) may submit to
21 the Secretary a petition to appeal a determina-
22 tion of the Secretary under such paragraph.

23 “(B) TIMELINE.—Not later than 90 days
24 after the date on which a selected eligible entity
25 described in paragraph (1) submits to the Sec-

1 retract a petition described in subparagraph (A),
2 the Secretary shall—

3 “(i) issue a publicly accessible certifi-
4 cation of the previous determination; or

5 “(ii) retract the determination.

6 “(3) SUNSET.—The authority under paragraph
7 (1) shall expire on December 31, 2036.”;

8 (8) in paragraph (2)(I) of subsection (r), as so
9 redesignated, by striking “Director of the Office of
10 Science” and inserting “Secretary”;

11 (9) by amending subsections (t) and (u), as so
12 redesignated, to read as follows:

13 “(t) MATERIAL PLASMA EXPOSURE EXPERIMENT.—

14 “(1) IN GENERAL.—The Secretary shall operate
15 a Material Plasma Exposure Experiment facility as
16 described in the 2020 publication approved by the
17 Fusion Energy Sciences Advisory Committee entitled
18 ‘Powering the Future: Fusion and Plasmas’. The
19 Secretary shall consult with the private sector, insti-
20 tutions of higher education, National Laboratories,
21 and relevant Federal agencies to ensure that the fa-
22 cility is capable of meeting Federal research needs
23 for steady state, high-heat-flux, and plasma-material
24 interaction testing of fusion materials over a range
25 of fusion energy relevant parameters.

1 “(2) FACILITY CAPABILITIES.—The Secretary
2 shall ensure that the facility described in paragraph
3 (1) will provide the following capabilities:

4 “(A) A magnetic field at the target of 1
5 Tesla.

6 “(B) An energy flux at the target of 10
7 MW/m².

8 “(C) The ability to expose previously irra-
9 diated plasma facing material samples to plas-
10 ma.

11 “(3) START OF OPERATIONS.—The Secretary
12 shall, subject to the availability of appropriations,
13 ensure that the start of full operations of the facility
14 described in paragraph (1) occurs before December
15 31, 2027.

16 “(u) FACILITY CONSTRUCTION.—

17 “(1) LARGE FACILITIES.—The Secretary shall
18 construct high priority research facilities, as de-
19 scribed in the 2024 Report of the Fusion Energy
20 Sciences Advisory Committee Facilities Projects
21 Subcommittee and in the 2026 Fusion Science and
22 Technology Roadmap published by the Director of
23 the Office of Science of the Department, to conduct
24 commercial scale testing of the following:

25 “(A) Fuel cycle and blanket technologies.

1 “(B) The impacts of fusion neutrons on
2 fusion system materials, including through the
3 construction of a fusion neutron source.

4 “(2) SMALL AND MID-SIZED FACILITIES.—The
5 Secretary shall construct small and mid-sized re-
6 search facilities to address research priorities identi-
7 fied in the 2026 Fusion Science and Technology
8 Roadmap published by the Director of the Office of
9 Science of the Department.

10 “(3) PARTNERSHIPS.—The Secretary may, as
11 the Secretary determines appropriate, leverage any
12 public-private partnership and collaboration with an
13 international partner to maximize the impact of the
14 investment of Federal resources in the construction
15 of a high priority research facility under paragraph
16 (1).

17 “(4) FUNDING.—In addition to amounts other-
18 wise appropriated or made available for such pur-
19 pose, there is appropriated to the Secretary the fol-
20 lowing:

21 “(A) \$3,800,000,000 for fiscal year 2027,
22 to remain available until expended, to carry out
23 paragraph (1).

1 “(B) \$300,000,000 for fiscal year 2027, to
2 remain available until expended, to carry out
3 paragraph (2).

4 “(5) REPORT.—Not later than 6 months after
5 the date of the enactment of this subsection, the
6 Secretary shall submit to the Committee on Science,
7 Space, and Technology of the House of Representa-
8 tives and the Committee on Energy and Natural Re-
9 sources of the Senate a report that includes informa-
10 tion relating to the construction of high priority re-
11 search facilities under paragraphs (1) and (2), in-
12 cluding any estimated schedules of and resource re-
13 quirements for such construction.”;

14 (10) by inserting before subsection (x), as so re-
15 designated, the following new subsections:

16 “(v) INNOVATION NETWORK FOR FUSION EN-
17 ERGY.—

18 “(1) IN GENERAL.—The Secretary shall sup-
19 port a program to provide fusion energy researchers
20 with access to scientific and technical resources and
21 expertise at facilities supported by the Department,
22 including such facilities at National Laboratories
23 and institutions of higher education, to advance in-
24 novative fusion energy technologies toward commer-
25 cial application.

1 “(2) AWARDS.—Financial assistance for the
2 program described in paragraph (1)—

3 “(A) shall be awarded on a competitive,
4 merit-reviewed basis; and

5 “(B) may be in the form of grants, vouch-
6 ers, equipment loans, or contracts to private en-
7 tities.

8 “(w) PRIVATE FACILITIES RESEARCH PROGRAM.—
9 The Secretary shall carry out a private facilities research
10 program to enable federally funded researchers to conduct
11 studies related to fusion at fusion facilities that are owned
12 and operated by private sector entities.”; and

13 (11) by amending subsection (x), as so redesign-
14 nated, to read as follows:

15 “(x) AUTHORIZATION OF APPROPRIATIONS.—There
16 is authorized to be appropriated to the Secretary to carry
17 out the activities described in this section the following:

18 “(1) \$1,114,187,798 for fiscal year 2027.

19 “(2) \$1,169,897,188 for fiscal year 2028.

20 “(3) \$1,228,392,047 for fiscal year 2029.

21 “(4) \$1,289,811,650 for fiscal year 2030.

22 “(5) \$1,354,302,232 for fiscal year 2031.”.

1 **SEC. 102. GRADED REVIEW FOR PARTNERSHIPS WITH NA-**
2 **TIONAL LABORATORIES.**

3 (a) IN GENERAL.—The Secretary of Energy shall es-
4 tablish a graded review process to review any private sec-
5 tor entity seeking to enter into an agreement with, or per-
6 form work with, one or more National Laboratories to re-
7 duce duplication of review by the Secretary of any of the
8 following:

9 (1) The finances of such private sector entity.

10 (2) Whether such private sector entity is owned,
11 controlled, influenced by a foreign entity.

12 (3) Technical reviews, as determined by the
13 Secretary.

14 (b) REQUIREMENTS.—

15 (1) The process established under paragraph

16 (a) shall distinguish among—

17 (A) entities and proposed work that have
18 not previously been reviewed by the Depart-
19 ment, which shall be subject to standard review;

20 (B) entities that have previously been re-
21 viewed by the Department but seek to perform
22 work in a different technical area, scope of
23 work, or risk profile, which shall be subject to
24 expedited supplemental review that relies, to the
25 maximum extent practicable, on prior Depart-
26 ment review of the entity; and

1 (C) entities listed by the Department as
2 having completed Department review for the
3 same or similar technical area, scope of work,
4 and risk profile, for which National Labora-
5 tories and their management and operating
6 contractors shall rely on the prior Department
7 review and shall not conduct a de novo review,
8 except where additional review is required under
9 this section.

10 (2) Reviews required under paragraph (a) shall
11 be conducted by the counterintelligence office or its
12 equivalence of the applicable National Laboratory, to
13 the maximum extent practicable. Additional review
14 by the Department shall be required only where the
15 proposed work involves both—

16 (A) a technology area identified by the
17 Secretary in a Department risk matrix as pre-
18 senting elevated research security, export con-
19 trol, foreign engagement, or counterintelligence
20 risk; and

21 (B) an entity that is organized under the
22 laws of, owned in part or in whole, or controlled
23 by, or otherwise subject to the jurisdiction or
24 direction of, a country of concern.

25 (c) CENTRALIZED MECHANISM.—

1 (1) IN GENERAL.—In establishing a graded re-
2 view process under subsection (a), the Secretary of
3 Energy shall maintain a centralized mechanism that
4 includes information relating to any entity reviewed
5 under such subsection by the Secretary, including in-
6 formation related to the technical area, scope of
7 work, or risk profile of such entity.

8 (2) UPDATES.—The Secretary of Energy shall
9 establish procedures to update the centralized mech-
10 anism established under paragraph (1) to ensure
11 such centralized mechanism includes any material
12 change, as determined by the Secretary, in owner-
13 ship, control, financing, foreign affiliations, proposed
14 work, facility access, information access, or other
15 risk-relevant circumstances of an entity reviewed
16 under subsection (a).

17 (d) DEFINITIONS.—In this section:

18 (1) NATIONAL LABORATORY.—The term “Na-
19 tional Laboratory” has the meaning given such term
20 in section 2 of the Energy Policy Act of 2005 (42
21 U.S.C. 15801).

22 (2) COUNTRY OF CONCERN.—The term “coun-
23 try of concern” has the meaning given the term
24 “foreign country of concern” in section 10638 of
25 subtitle D of title VI of the Research and Develop-

1 ment, Competition, and Innovation Act (enacted as
2 division B of Public Law 117–167; 42 U.S.C.
3 19237)).

4 **SEC. 103. REESTABLISHMENT OF DEPARTMENT OF ENERGY**
5 **OFFICE RELATING TO FUSION.**

6 (a) OFFICE OF FUSION.—

7 (1) IN GENERAL.—Title II of the Department
8 of Energy Organization Act is amended by inserting
9 after section 215 (42 U.S.C. 7144b) the following
10 new section:

11 **“SEC. 216. OFFICE OF FUSION.**

12 “(a) ESTABLISHMENT.—The Secretary shall estab-
13 lish the Office of Fusion (referred to in this section as
14 the ‘Office’) within the Department to advance near-term
15 and long-term fusion energy science and technology to
16 meet the energy, environmental, and economic needs of
17 the United States.

18 “(b) ASSISTANT SECRETARY FOR FUSION EN-
19 ERGY.—The head of the Office shall be an Assistant Sec-
20 retary for Fusion Energy.

21 “(c) CONSOLIDATION OF FUSION OFFICES.—The
22 Secretary shall carry out the following:

23 “(1) Transfer to the Office all programs carried
24 out by the Fusion Energy Sciences program of the
25 Office of Science as of November 19, 2025.

1 “(2) Establish a timeline for such transfer.

2 “(d) DUTIES.—The Office shall carry out the fol-
3 lowing:

4 “(1) Enhance the economic and energy security
5 of the United States.

6 “(2) Ensure United States leadership in—

7 “(A) fusion energy technologies; and

8 “(B) foundational and industrial plasma
9 science.

10 “(3) Accelerate research, development, dem-
11 onstration, deployment, and market adoption of fu-
12 sion technologies, in partnership with the private
13 sector.

14 “(4) Manage public-private partnerships with
15 the United States fusion industry to accelerate the
16 successful deployment of the first commercial fusion
17 power plants, with a goal to start construction of
18 more than one fusion pilot power plant not later
19 than December 31, 2028.

20 “(5) Ensure an adequate national fusion supply
21 chain infrastructure, including manufacturing capa-
22 bilities.

23 “(6) Serve in a coordination role to align the
24 capabilities of the Office of Science, the Advanced
25 Research Projects Agency—Energy, and the Na-

1 tional Nuclear Security Administration for fusion-
2 relevant technologies to serve a single goal of accel-
3 erating commercial plant deployment while meeting
4 high standards for safety.

5 “(7) Expand international fusion energy co-
6 operation to support the commercial application of
7 fusion energy.

8 “(8) Ensure the availability of a well-trained
9 workforce to support the fusion industry.

10 “(9) Provide technical expertise to regulators of
11 fusion machines at the Federal, State, and inter-
12 national levels.

13 “(10) Partner with other agencies to support
14 programs and initiatives to facilitate international
15 market opportunities for the United States commer-
16 cial fusion industry.

17 “(e) GENERAL PLASMA SCIENCE AND APPLICA-
18 TIONS.—Subsection (l) of section 307 of the Department
19 of Energy Research and Innovation Act (42 U.S.C.
20 18645(l); Public Law 115–246) is amended to read as fol-
21 lows:

22 ““(l) GENERAL PLASMA SCIENCE AND APPLICA-
23 TIONS.—

24 ““(1) IN GENERAL.—The Secretary, acting
25 through the Assistant Secretary for Fusion Energy,

1 shall support a broad portfolio of research activities
2 in general plasma science and high energy density
3 physics that advance the understanding of the sci-
4 entific community of fundamental properties and
5 complex behavior of matter to control and manipu-
6 late plasmas for a broad range of applications, in-
7 cluding support for research relevant to advance-
8 ments in chip manufacturing and microelectronics.

9 “(2) AUTHORIZATION OF APPROPRIATIONS.—
10 Out of funds authorized to be appropriated under
11 subsection (x), there is authorized to be appro-
12 priated to the Secretary to carry out the activities
13 described in this subsection \$75,000,000 for each of
14 fiscal years 2027 through 2031. ’.

15 “(f) CONSULTATION.—In carrying out the duties of
16 the Office, the Assistant Secretary shall consult with the
17 private sector, National Laboratories, institutions of high-
18 er education, and the public as to how to optimize the or-
19 ganization of the various programs within the Depart-
20 ment.

21 “(g) COORDINATION AND NONDUPLICATION.—

22 “(1) IN GENERAL.—To the maximum extent
23 practicable, the Assistant Secretary shall ensure that
24 the activities of the Office are coordinated with, and
25 do not duplicate the efforts of, other programs and

1 laboratories within the Department and other rel-
2 evant research agencies.

3 “(2) COORDINATION.—In carrying out para-
4 graph (1), the Assistant Secretary shall coordinate
5 with the following:

6 “(A) The Director of the Advanced Re-
7 search Projects Agency-Energy (ARPA-E).

8 “(B) The Assistant Secretary of Energy
9 for Nuclear Energy.

10 “(C) The Director of the Office of Science.

11 “(D) The Director of the Loan Programs
12 Office.

13 “(E) The Director of the Office of Tech-
14 nology Commercialization.

15 “(F) The Assistant Secretary of Energy
16 for the Office of Environmental Management.

17 “(G) The Chief Executive Officer of the
18 Foundation for Energy Security and Innova-
19 tion.

20 “(H) The Administrator of the National
21 Nuclear Security Administration.

22 “(I) The Director of the National Science
23 Foundation.

24 “(J) The Secretary of Defense.

25 “(K) The Secretary of Commerce.

1 “(L) The Director of the National Insti-
2 tute of Standards and Technology.

3 “(M) The National Laboratories.

4 “(N) Relevant members of the fusion in-
5 dustry.

6 “(O) Relevant members of the academic
7 community.”.

8 (b) ASSISTANT SECRETARY FOR FUSION ENERGY.—
9 Section 203(a)(2) of the Department of Energy Organiza-
10 tion Act (42 U.S.C. 7133(a)(2)) is amended—

11 (1) by redesignating subparagraphs (C), (D),
12 and (E) as subparagraphs (D), (E), and (F), respec-
13 tively; and

14 (2) by inserting after subparagraph (B) the fol-
15 lowing new subparagraph:

16 “(C) fusion energy resources;”.

17 (c) CLERICAL AMENDMENT.—The table of contents
18 for the Department of Energy Organization Act (Public
19 Law 95–91; 91 Stat. 565; 119 Stat. 764; 133 Stat. 2199)
20 is amended by inserting after the item relating to section
21 215 the following:

 “Sec. 216. Office of Fusion.”.

1 **TITLE II—STEM EDUCATION AND**
2 **SKILLED TECHNICAL WORK-**
3 **FORCE FOR FUSION**

4 **SEC. 201. FUSION EDUCATION AND SKILLED TECHNICAL**
5 **WORKFORCE ACTIVITIES.**

6 (a) NATIONAL SCIENCE FOUNDATION ACTIVITIES.—

7 (1) IN GENERAL.—The Director, in coordina-
8 tion, and as appropriate, in collaboration, with the
9 Secretary, may make awards to institutions of high-
10 er education, including junior and community col-
11 leges, nonprofit organizations, labor organizations,
12 or consortia thereof, for research, development, and
13 related activities to advance innovative approaches to
14 developing, improving, and expanding education and
15 workforce development (including supporting the re-
16 tention, development, and growth of a diverse and
17 sustainable workforce for fusion related fields to sat-
18 isfy the evolving needs of industry, academia, Na-
19 tional Laboratories, and Federal, State, local, and
20 Tribal governments) activities and learning experi-
21 ences at all levels of education in fields and dis-
22 ciplines related to fusion.

23 (2) USES OF FUNDS.—Awards made under this
24 section shall be used to support activities and learn-

1 ing experiences referred to in paragraph (1), includ-
2 ing the following:

3 (A) Development of industry-oriented cur-
4 ricula, teaching modules, and stackable creden-
5 tials for topics relevant to fusion, including
6 such curricula, teaching modules, and stackable
7 credentials that provide meaningful hands-on
8 learning experiences.

9 (B) Development and implementation of
10 training, research, and professional development
11 programs for teachers, including innovative pre-
12 service and in-service programs, in fusion and
13 related fields.

14 (C) Identification of critical skills and core
15 competencies required for the successful com-
16 mercial application of fusion technologies.

17 (D) Support for learning activities and ex-
18 periences that provide physical, simulated, or
19 remote access to National Laboratories, Federal
20 training facilities, and industry-standard proc-
21 esses and tools, including equipment and soft-
22 ware tools for both traditional and nontradi-
23 tional students.

1 (E) Increasing the integration of fusion
2 content into STEM curricula at all education
3 levels.

4 (F) Growing academic research capacity in
5 fusion by incentivizing the hiring and retention
6 of faculty in fields critical to fusion sciences
7 and engineering.

8 (G) Support for innovative industry path-
9 way programs that connect PreK–12 schools,
10 junior or community colleges, nonprofit organi-
11 zations, labor organizations, and institutions of
12 higher education programs or programs that
13 serve or support veterans.

14 (H) Providing informal hands-on learning
15 opportunities relating to fusion sciences and en-
16 gineering for PreK–12 students in different
17 learning environments, including regional and
18 national competitions.

19 (I) Support for STEM programs for the
20 skilled technical workforce that are aligned with
21 the needs the fusion industry workforce, includ-
22 ing internships and other hands-on activities in
23 industry.

24 (J) Support for research and evaluation of
25 the activities described in subparagraphs (A)

1 through (H) to identify successful programs
2 and resources.

3 (3) FUSION RESEARCH EXPERIENCES.—The
4 Director shall seek to increase opportunities for fu-
5 sion research for students and trainees at all levels
6 by encouraging the following:

7 (A) Research experiences for undergradu-
8 ates pursuant to section 514 of the America
9 COMPETES Reauthorization Act of 2010 (42
10 U.S.C. 1862p–6).

11 (B) Postdoctoral fellowship programs es-
12 tablished pursuant to section 522 of the Amer-
13 ica COMPETES Reauthorization Act of 2010
14 (42 U.S.C. 1862p–11).

15 (C) Graduate fellowships, traineeships, and
16 other training opportunities established pursu-
17 ant to section 10 of the National Science Foun-
18 dation Act of 1950 (42 U.S.C. 1869).

19 (D) Informal STEM education programs
20 established pursuant to section 3 of the STEM
21 Education Act of 2015 (42 U.S.C. 1862q).

22 (E) The Robert Noyce Teacher Scholar-
23 ship Program established pursuant to section
24 10 of the National Science Foundation Author-
25 ization Act of 2002 (42 U.S.C. 1862n–1).

1 (F) Major research instrumentation pro-
2 grams established pursuant to section 7036 of
3 the America COMPETES Act (42 U.S.C.
4 1862o–14).

5 (G) The low-income scholar program estab-
6 lished pursuant to section 414(d) of the Amer-
7 ican Competitiveness and Workforce Improve-
8 ment Act of 1998 (42 U.S.C. 1869c).

9 (4) EXISTING PROGRAMS.—In carrying out this
10 subsection, the Director may leverage existing pro-
11 grams of the National Science Foundation.

12 (5) NON-FEDERAL PARTNERSHIPS.—In car-
13 rying out this subsection, the Director shall encour-
14 age awardees to partner with nonprofit organiza-
15 tions, labor organizations, industry, and other pri-
16 vate sector organizations.

17 (b) DEPARTMENT OF ENERGY ACTIVITIES.—

18 (1) IN GENERAL.—The Secretary, acting
19 through the Assistant Secretary for Fusion Energy,
20 in coordination, and as appropriate, in collaboration,
21 with the Director of National Science Foundation,
22 may make awards to institutions of higher edu-
23 cation, nonprofit organizations, labor organizations,
24 National Laboratories, or consortia thereof, for re-
25 search, development, and related activities to ad-

1 vance innovative approaches to developing, improv-
2 ing, and expanding education and workforce develop-
3 ment activities and learning experiences at all levels
4 of education in fields and disciplines related to fu-
5 sion.

6 (2) USES OF FUNDS.—Awards made under this
7 section shall be used to support activities, such as
8 the following:

9 (A) Internships, fellowships, apprentice-
10 ships, traineeships, and other research or work-
11 based learning opportunities relating to fusion.

12 (B) Educational programming for students
13 at all levels, especially experiential and project-
14 based learning opportunities relating to fusion.

15 (C) The acquisition, development, and
16 maintenance of state-of-the-art equipment and
17 facilities essential for fusion research and work-
18 force development, including the following:

19 (i) Purchasing advanced instrumenta-
20 tion and equipment to support experi-
21 mental and computational fusion research.

22 (ii) Renovating and modernizing lab-
23 oratory and teaching facilities to satisfy
24 the evolving requirements of fusion science.

1 (iii) Funding ongoing maintenance
2 and calibration of critical equipment to en-
3 sure operational readiness.

4 (D) Professional development opportunities
5 for educators and researchers relating to fusion.

6 (3) EXISTING PROGRAMS.—In carrying out this
7 subsection, the Secretary may leverage existing pro-
8 grams of the Department of Energy.

9 (c) PILOT PROGRAM FOR INDUSTRY PROFESSIONAL
10 INSTRUCTORS.—

11 (1) IN GENERAL.—The Director, in consulta-
12 tion with the Secretary, may implement one or more
13 pilot programs to award grants to institutions of
14 higher education, nonprofit organizations, or con-
15 sortia thereof, to establish short-term appointments
16 for professionals from the private sector, to educate
17 students on fusion sciences and engineering or re-
18 lated skills required for the fusion industry.

19 (2) USE OF FUNDS.—An institution may use
20 grant funds awarded under this subsection for the
21 following:

22 (A) Paying a stipend or living expenses for
23 short-term instructors who are industry profes-
24 sionals referred to in paragraph (1).

1 (B) Training of industry professionals in
2 relevant pedagogical or teaching methods.

3 (C) Developing or updating course mate-
4 rials.

5 (D) Administrative costs related to recruit-
6 ing or on-boarding instructors.

7 (3) PERIOD OF PERFORMANCE.—Subject to
8 paragraph (5), a pilot program under paragraph (1)
9 shall be for not more than three years.

10 (4) CONTINUATION AUTHORITY.—The Director
11 may extend the period specified in paragraph (4) if
12 the Director determines it is feasible and advisable
13 to do so.

14 (5) OUTREACH.—To increase the diversity of
15 participants in a pilot program under paragraph (1),
16 the Director shall support symposia, forums, con-
17 ferences, or other activities to expand and enhance
18 outreach to the following:

19 (A) Junior or community colleges.

20 (B) Hispanic-serving institutions.

21 (C) Historically Black colleges and univer-
22 sities.

23 (D) Tribal Colleges or Universities.

24 (E) Minority-serving institutions.

1 (F) Institutions of higher education that
2 are located near or serve rural communities.

3 (G) Other institutions of higher education.

4 **SEC. 202. FUSION EDUCATION AND WORKFORCE COORDI-**
5 **NATION HUB.**

6 (a) IN GENERAL.—The Director, in consultation with
7 the Secretary and the heads of other relevant Federal de-
8 partments and agencies, as appropriate, shall make an
9 award to a consortium led by an institution of higher edu-
10 cation or nonprofit organization to establish a Fusion
11 Skilled Technical Workforce and STEM Education Co-
12 ordination Hub (in this section referred to as the “Hub”).

13 (b) CONSORTIUM.—The Hub—

14 (1) shall not include fewer than four institu-
15 tions of higher education, including not fewer than
16 one junior or community college; and

17 (2) may include National Laboratories, labor
18 organizations, nonprofit organizations, and private
19 sector entities.

20 (c) PURPOSE.—The purposes of the Hub are the fol-
21 lowing:

22 (1) To identify and address cross-cutting work-
23 force development challenges in fusion sciences and
24 engineering, and the fusion industry, by serving as

1 a national and regional clearinghouse of relevant
2 Federal programs.

3 (2) To facilitate the establishment of programs
4 to disseminate to institutions of higher education
5 and career and technical education entities model
6 curricula, best practices, and instructional materials.

7 (d) USES OF FUNDS.—The activities of the Hub may
8 include the following:

9 (1) Testing, implementing, scaling, dissemi-
10 nating, assessing, and standardizing materials,
11 methods, open-source hardware and software, best
12 practices, and other outputs developed through ac-
13 tivities under this Act, including through the estab-
14 lishment of a publicly-accessible database and online
15 portal.

16 (2) Facilitating post-education employment op-
17 portunities and workforce pathways in fusion-related
18 industries, including by facilitating opportunities for
19 internships, externships, continuing education and
20 upskilling, and such other activities as determined
21 appropriate by the Director.

22 (3) Coordinating with fusion industry and non-
23 profit entities to enhance the quality and availability
24 of fusion education in STEM degree programs and
25 skilled technical education programs, including

1 through the promotion of post-graduation opportuni-
2 ties for STEM students outside the classroom to in-
3 crease exposure to fusion industries.

4 (4) Supporting activities and programs to en-
5 hance the recruitment of students from groups his-
6 torically underrepresented in STEM to pursue un-
7 dergraduate and graduate studies related to fusion
8 and fusion education.

9 (5) Developing, testing, implementing, and co-
10 ordinating career development programs and strate-
11 gies for pre-university and university educators for
12 the purpose of increasing the number of fusion-in-
13 formed educators at all levels of education, including
14 by carrying out the following:

15 (A) Hosting career development work-
16 shops.

17 (B) Developing in-house and distance
18 learning career development tools for public
19 use.

20 (C) Facilitating access to related fusion
21 technology, tools, and resources.

22 (D) Developing training, research, and
23 professional development programs, including
24 innovative pre-service and in-service programs.

1 (E) Identifying and supporting education
2 and training activities with relevant National
3 Laboratories, including experiential learning op-
4 portunities.

5 (F) Facilitating relationships with State
6 and local entities to increase awareness of and
7 promote fusion-related career development ac-
8 tivities at the Hub.

9 (6) Establishing a framework for performing
10 ongoing regular data collection and analysis for the
11 domestic fusion workforce to report on trends and
12 perform other activities that expand the under-
13 standing of the current and future needs of the fu-
14 sion industry, and education capacity or readiness of
15 such workforce.

16 (7) Facilitating public education and outreach
17 activities to enhance the understanding and aware-
18 ness of fusion to a broader community to satisfy
19 broader impact requirements of award applications.

20 (8) Encouraging coordination on fusion edu-
21 cation in the broader STEM community.

22 (9) Identify opportunities to partner with other
23 industrial sectors, such as automotive research and
24 aviation, to build a skilled technical workforce.

1 (10) In coordination with the Director, identify
2 Federal funding opportunities, including grants, co-
3 operative agreements, and fellowships, for non-Fed-
4 eral entities, including such entities from the private
5 sector, to contribute financial resources or in-kind
6 contributions.

7 (e) INTERAGENCY COORDINATION.—The Hub shall
8 coordinate with the National Science Foundation, the De-
9 partment of Energy, the Department of Education, the
10 Department of Labor, and other relevant Federal agen-
11 cies, as appropriate, with respect to activities and re-
12 sources under this section.

13 (f) APPLICATION.—A consortium seeking funding
14 under this section shall submit to the Director an applica-
15 tion at such time, in such manner, and containing such
16 information as the Director may require. Each such appli-
17 cation shall include a description of how the consortium
18 shall carry out the following:

19 (1) Contribute to the success of the Hub and
20 fulfill the purposes of the Hub.

21 (2) Include industry participation in fulfilling
22 the purposes of the Hub.

23 (3) Collaborate with other members of the con-
24 sortium to share expertise in integrating fusion
25 science, engineering, and technology into existing

1 STEM programs and other relevant fields and dis-
2 ciplines.

3 (4) Support long-term and short-term fusion
4 workforce development.

5 (5) Develop outreach activities to increase the
6 participation of people in rural communities, women,
7 and students from groups historically underrep-
8 resented in STEM.

9 (g) SELECTION AND DURATION.—

10 (1) IN GENERAL.—The Hub is authorized to
11 carry out activities under this section for a period of
12 five years.

13 (2) REAPPLICATION.—An awardee may reapply
14 for an additional, subsequent period of five years fol-
15 lowing a successful, merit-based review.

16 (3) TERMINATION.—Consistent with the au-
17 thorities of the National Science Foundation, the Di-
18 rector may terminate the Hub if the Director deter-
19 mines the Hub is underperforming during the per-
20 formance period.

21 **SEC. 203. DEFINITIONS.**

22 In this title:

23 (1) DIRECTOR.—The term “Director” means
24 the Director of the National Science Foundation.

1 (2) HISPANIC-SERVING INSTITUTION.—The
2 term “Hispanic-serving institution” has the meaning
3 given such term in section 502(a) of the Higher
4 Education Act of 1965 (20 U.S.C. 1101a(a)).

5 (3) HISTORICALLY BLACK COLLEGE AND UNI-
6 VERSITY.—The term “historically Black college and
7 university” has the meaning given the term “part B
8 institution” in section 322 of the Education Act of
9 1965 (20 U.S.C. 1061).

10 (4) INSTITUTION OF HIGHER EDUCATION.—The
11 term “institution of higher education” has the
12 meaning given such term in section 101(a) of the
13 Higher Education Act of 1965 (20 U.S.C. 1001(a)).

14 (5) JUNIOR OR COMMUNITY COLLEGE.—The
15 term “junior or community college” has the meaning
16 given such term in section 312(f) of the Higher
17 Education Act of 1965 (20 U.S.C. 1058(f)).

18 (6) LABOR ORGANIZATION.—The term “labor
19 organization” has the meaning given such term in
20 section 2(5) of the National Labor Relations Act (29
21 U.S.C. 152(5)), except that such term shall also in-
22 clude the following:

23 (A) Any organization composed of labor
24 organizations, such as a labor union federation
25 or a State or municipal labor body.

1 (B) Any organization which would be in-
2 cluded in the definition for such term under
3 such section 2(5) but for the fact that such or-
4 ganization represents any of the following:

5 (i) Individuals employed by the United
6 States, any wholly owned Government cor-
7 poration, any Federal Reserve Bank, or
8 any State or political subdivision thereof.

9 (ii) Individuals employed by persons
10 subject to the Railway Labor Act (45
11 U.S.C. 151 et seq.).

12 (iii) Individuals employed as agricul-
13 tural laborers.

14 (7) MINORITY-SERVING INSTITUTIONS.—The
15 term “minority serving institution” means an Alaska
16 Native-serving institution or Native Hawaiian-serv-
17 ing institution (as such term is defined in section
18 317(b) of such Act (20 U.S.C. 1059d(b))), or a Pre-
19 dominantly Black institution, Asian American and
20 Native American Pacific Islander-serving institution,
21 or Native American-serving nontribal institution (as
22 such terms are defined in section 371(c) of such Act
23 (20 U.S.C. 1067q(c))).

24 (8) NATIONAL LABORATORY.—The term “Na-
25 tional Laboratory” has the meaning given such term

1 in section 2 of the Energy Policy Act of 2005 (42
2 U.S.C. 15801).

3 (9) NONPROFIT ORGANIZATION.—The term
4 “nonprofit organization” means an organization de-
5 scribed in section 501(c)(3) of the Internal Revenue
6 Code of 1986 and exempt from tax under section
7 501(a) of such Code.

8 (10) PREK–12.—The term “PreK–12” means
9 pre-kindergarten through grade 12.

10 (11) SECRETARY.—The term “Secretary”
11 means the Secretary of Energy.

12 (12) SKILLED TECHNICAL WORKFORCE.—The
13 term “skilled technical workforce” has the meaning
14 given such term in section 4(b)(3) of the Innovations
15 in Mentoring, Training, and Apprenticeships Act (42
16 U.S.C. 1862p note; Public Law 115–402).

17 (13) STEM.—The term “STEM” means
18 science, technology, engineering, and mathematics.

19 (14) TRIBAL COLLEGE OR UNIVERSITY.—The
20 term “Tribal College or University” has the meaning
21 given such term in section 316 of the Higher Edu-
22 cation Act of 1965 (20 U.S.C. 1059c).

23 **SEC. 204. AUTHORIZATION OF APPROPRIATIONS.**

24 (a) NATIONAL SCIENCE FOUNDATION.—To carry out
25 this Act, there is authorized to be appropriated to the Di-

1 rector \$30,000,000 for each of fiscal years 2027 through
2 2031.

3 (b) DEPARTMENT OF ENERGY.—To carry out this
4 Act, there is authorized to be appropriated to the Sec-
5 retary \$15,000,000 for each of fiscal years 2027 through
6 2031.