

119TH CONGRESS  
1ST SESSION

# H. R. 2756

To authorize the National Biotechnology Initiative, and for other purposes.

---

## IN THE HOUSE OF REPRESENTATIVES

APRIL 9, 2025

Mrs. BICE (for herself and Mr. KHANNA) introduced the following bill; which was referred to the Committee on Science, Space, and Technology, and in addition to the Committees on Foreign Affairs, Agriculture, Energy and Commerce, and Education and Workforce, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

---

## A BILL

To authorize the National Biotechnology Initiative, 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 Biotechnology  
5 Initiative Act of 2025”.

6 **SEC. 2. DEFINITIONS.**

7 In this Act:

8 (1) **BIOLITERACY.**—The term “bioliteracy” re-  
9 fers to the concept of imbuing people, personnel, or

1 teams with an understanding of and ability to en-  
2 gage with biology and biotechnology.

3 (2) BIOLOGICAL DATA.—The term “biological  
4 data” means the information, including associated  
5 descriptors, derived from the structure, function, or  
6 process of a biological system(s) that is either meas-  
7 ured, collected, or aggregated for analysis.

8 (3) BIOMANUFACTURING.—The term “bio-  
9 manufacturing” means the application of bio-  
10 technology to manufacturing.

11 (4) BIOTECHNOLOGY.—The term “bio-  
12 technology” means the application of science and en-  
13 gineering in the direct or indirect use of living orga-  
14 nisms, or parts or products of living organisms, in-  
15 cluding modified forms.

16 (5) DIRECTOR OF THE NATIONAL BIO-  
17 TECHNOLOGY COORDINATION OFFICE.—The term  
18 “Director of the National Biotechnology Coordina-  
19 tion Office” means the individual appointed pursu-  
20 ant to section 4(b)(2)(A).

21 (6) INITIATIVE.—The term “Initiative” means  
22 the National Biotechnology Initiative established  
23 under section 3.

24 (7) INTERAGENCY COMMITTEE.—The term  
25 “Interagency Committee” means the interagency

1 committee designated pursuant to section  
2 10403(a)(1).

3 (8) OFFICE.—The term “Office” means the  
4 National Biotechnology Coordination Office estab-  
5 lished under section 4(b).

6 (9) PARTICIPATING AGENCY.—The term “par-  
7 ticipating agency” means a department, office, or  
8 agency set forth under section 3(b).

9 **SEC. 3. AUTHORIZATION OF THE NATIONAL BIO-**  
10 **TECHNOLOGY INITIATIVE.**

11 (a) INITIATIVE REQUIRED.—

12 (1) IN GENERAL.—The President, acting  
13 through the Executive Office of the President, shall  
14 implement an initiative to advance national security,  
15 economic productivity, and competitiveness through  
16 advancement and coordination of Federal activities  
17 relating to biotechnology.

18 (2) DESIGNATION.—The initiative implemented  
19 pursuant to paragraph (1) shall be known as the  
20 “National Biotechnology Initiative”.

21 (b) PARTICIPATING AGENCIES.—The following shall  
22 be participants in the Initiative:

23 (1) The Department of Agriculture.

24 (2) The Department of Commerce.

25 (3) The Department of Defense.

1           (4) The Department of Energy.

2           (5) The Department of Health and Human  
3       Services.

4           (6) The Department of Homeland Security.

5           (7) The Department of the Interior.

6           (8) The Department of State.

7           (9) The Environmental Protection Agency.

8           (10) The National Aeronautics and Space Ad-  
9       ministration.

10          (11) The National Science Foundation.

11          (12) The Office of the Director of National In-  
12       telligence.

13          (13) The Office of the United States Trade  
14       Representative.

15          (14) Such other Federal departments and agen-  
16       cies as the Director of the National Biotechnology  
17       Coordination Office considers appropriate.

18       (c) ACTIVITIES.—Each head of a participating agen-  
19       cy shall carry out the Initiative, including by carrying out  
20       the activities required by section 6 and by addressing and  
21       coordinating the following:

22           (1) Federal activities relating to biotechnology,  
23       including to create and maintain a national strategy  
24       on biotechnology.

1           (2) National security implications of emerging  
2     biotechnology.

3           (3) Sustained support for research and develop-  
4     ment that accelerates scientific understanding and  
5     technological innovation in biotechnology.

6           (4) Sustained support for biological data, data-  
7     bases, and related tools as a strategic national re-  
8     source.

9           (5) Private sector translation and commer-  
10    cialization of products that are produced with bio-  
11    technology.

12          (6) Regulatory streamlining for products that  
13    are produced with biotechnology.

14          (7) Biosafety and biosecurity issues associated  
15    with emerging biotechnology.

16          (8) Development of a domestic workforce, in-  
17    cluding the Federal workforce, to advance bio-  
18    technology across the United States.

19          (9) Bioliteracy activities that provide clear,  
20    easy-to-find information for policymakers,  
21    innovators, and the public.

22          (10) International partnerships, including regu-  
23    latory and commercial diplomacy.

24          (11) Such other activities relating to bio-  
25    technology as the Director of the National Bio-

1       technology Coordination Office and the Interagency  
2       Committee jointly determine are needed to advance  
3       national security, economic productivity, and com-  
4       petitiveness relating to biotechnology.

5   **SEC. 4. INITIATIVE COORDINATION.**

6       (a) INTERAGENCY COMMITTEE.—

7           (1) DESIGNATION.—Not later than 180 days  
8       after the date of the enactment of this Act, the  
9       President shall, acting through the Executive Office  
10      of the President, designate an interagency committee  
11      to coordinate activities of the Initiative.

12          (2) DUTIES.—Each member of the Interagency  
13      Committee shall—

14           (A) work with the Director of the National  
15      Biotechnology Coordination Office to oversee  
16      the planning, management, and coordination of  
17      the Initiative;

18           (B) ensure the department or agency of  
19      the member supports the Initiative through rel-  
20      evant activities set forth under section 6;

21           (C) keep the other members of the Inter-  
22      agency Committee apprised of the activities de-  
23      scribed in subparagraph (B); and

1 (D) communicate activities of the Inter-  
2 agency Committee with relevant components of  
3 the Department or agency of the member.

4 (3) MEMBERSHIP.—The Interagency Com-  
5 mittee shall include 1 member at the Assistant Sec-  
6 retary level from each participating agency selected  
7 by the head of the participating agency.

8 (4) CO-CHAIRPERSONS.—

9 (A) IN GENERAL.—The Interagency Com-  
10 mittee shall have 3 co-chairpersons, of whom—

11 (i) one co-chairperson shall be the Di-  
12 rector of the National Biotechnology Co-  
13 ordination Office; and

14 (ii) two co-chairpersons shall be se-  
15 lected by the members of the Interagency  
16 Committee from among the members of  
17 the Interagency Committee.

18 (B) TERMS.—Each co-chairperson selected  
19 pursuant to subparagraph (A)(ii) shall serve a  
20 term of 2 years, except for the first term the  
21 Interagency Committee shall select one co-  
22 chairperson to serve a term of 3 years, such  
23 that subsequent terms are staggered.

24 (C) VACANCIES.—

1 (i) IN GENERAL.—A vacancy under  
2 this paragraph shall be filled in the man-  
3 ner in which the original appointment was  
4 made and shall be subject to any condi-  
5 tions that applied with respect to the origi-  
6 nal appointment.

7 (ii) FILLING UNEXPIRED TERM.—An  
8 individual chosen to fill a vacancy shall be  
9 appointed for the unexpired term of the co-  
10 chairperson replaced.

11 (D) QUORUM.—A majority of the members  
12 of the Interagency Committee shall constitute a  
13 quorum for the purposes of voting for co-chair-  
14 persons under clauses (i)(II) and (ii)(II) of sub-  
15 paragraph (A), with co-chairpersons selected by  
16 the member who receives the highest plurality  
17 of votes.

18 (E) LIMITATION.—A member of the Inter-  
19 agency Committee from a particular Federal  
20 department or agency may not serve consecu-  
21 tive terms as co-chairperson of the Interagency  
22 Committee.

23 (b) NATIONAL BIOTECHNOLOGY COORDINATION OF-  
24 FICE.—



1           (1) ESTABLISHMENT OF NATIONAL BIO-  
2 TECHNOLOGY COORDINATION OFFICE.—

3           (A) IN GENERAL.—Not later than 180  
4 days after the date of the enactment of this  
5 Act, the President shall establish an office in  
6 the Executive Office of the President to support  
7 the Initiative.

8           (B) DESIGNATION.—The office established  
9 pursuant to subparagraph (A) shall be known  
10 as the “National Biotechnology Coordination  
11 Office”.

12           (2) DIRECTOR OF NATIONAL BIOTECHNOLOGY  
13 COORDINATION OFFICE.—

14           (A) APPOINTMENT.—Not later than 180  
15 days after the date of the enactment of this  
16 Act, the President shall appoint an individual to  
17 serve as the Director of the National Bio-  
18 technology Coordination Office.

19           (B) DUTIES.—The duties of the Director  
20 of the National Biotechnology Coordination Of-  
21 fice are as follows:

22                   (i) To serve as the principal advisor to  
23 the President for biotechnology.

24                   (ii) To administer the functions of the  
25 Office set forth under paragraph (3).

1 (C) AUTHORITIES.—In support of the Ini-  
2 tiative, the Director may—

3 (i) advise the Director of the Office of  
4 Management and Budget for the purposes  
5 of tracking and adjusting agency spending  
6 relating to biotechnology, including to en-  
7 sure that Federal efforts are complemen-  
8 tary and not duplicative;

9 (ii) convene members of the Inter-  
10 agency Committee in order to advance and  
11 coordinate Federal activities relating to  
12 biotechnology;

13 (iii) coordinate Federal regulation of  
14 products that are produced with bio-  
15 technology;

16 (iv) select, appoint, employ, and fix  
17 the compensation of such officers and em-  
18 ployees as are necessary and prescribe  
19 their duties;

20 (v) enter into and perform such con-  
21 tracts, leases, cooperative agreements, or  
22 other transactions, as appropriate, to the  
23 conduct of the work of the Office;

(vi) utilize, with their consent, the services, personnel, and facilities of other Federal agencies; and

(vii) accept voluntary and uncompensated services, notwithstanding the provisions of section 1342 of title 31, United States Code.

(3) FUNCTIONS OF THE OFFICE.—The functions of the Office shall be, in support of the Initiative, the following:

(A) PLANNING AND COORDINATION.—Functions relating to planning and coordination as follows:

(i) Working with the Interagency Committee to oversee the planning, management, and coordination of Federal activities relating to biotechnology.

(ii) Providing technical and administrative support to the Interagency Committee.

(iii) Assessing the landscape and gaps associated with the different components of the Initiative.

(iv) Coordinating a fellowship program in which Federal employees are de-

1           tailed to 1 or more Federal agencies to  
2           gain greater understanding of bio-  
3           technology activities outside of their home  
4           agency.

5           (v) Building and maintaining a co-  
6           ordinated website for Federal activities re-  
7           lating to biotechnology pursuant to sub-  
8           section (c).

9           (vi) Coordinating development of an  
10          annual report under subsection (d) and a  
11          national strategy as required by subsection  
12          (e).

13          (vii) Conducting such other activities  
14          to support the Initiative as the Director  
15          considers appropriate.

16          (B) NATIONAL SECURITY.—Functions re-  
17          lating to national security as follows:

18               (i) Assessing and addressing the na-  
19               tional security and economic security impli-  
20               cations of emerging biotechnology.

21               (ii) Identifying and remedying any  
22               major needs or information gaps in current  
23               national security assessments and activi-  
24               ties, including to conduct counterintel-

1           ligence efforts to fill gaps relating to bio-  
2           technology.

3                   (iii) Providing coordination in ad-  
4           dressing foreign investments and acquisi-  
5           tion from adversarial countries.

6                   (C) RESEARCH AND DEVELOPMENT.—

7           Functions relating to research and development  
8           as follows:

9                   (i) Coordinating sustained support for  
10          research and development that accelerates  
11          scientific understanding and technological  
12          innovation in biotechnology.

13                  (ii) Facilitating joint agency solicita-  
14          tions for funding for individual grants, col-  
15          laborative grants, and interdisciplinary re-  
16          search centers.

17                  (iii) Developing and proposing focus  
18          areas or challenges for research funding  
19          meant to advance biotechnology, particu-  
20          larly relating to convergence with other  
21          technologies such as artificial intelligence.

22                  (iv) Developing, standardizing, and  
23          deploying robust mechanisms for docu-  
24          menting and quantifying the outputs and  
25          economic benefits of biotechnology.

1 (D) DATA AND DATABASES.—Functions  
2 relating to data and databases as follows:

3 (i) Coordinating sustained support for  
4 biological data, databases, and related  
5 tools as a strategic national resource to ad-  
6 vance human health and the understanding  
7 of animals, plants, microbes, and other or-  
8 ganisms.

9 (ii) Recommending actions to inte-  
10 grate security into biological data access  
11 and international reciprocity agreements.

12 (iii) Coordinating frameworks for bio-  
13 logical data standardization to create  
14 datasets that are interoperable and usable  
15 by advanced computation methods such as  
16 artificial intelligence.

17 (E) PRODUCT COMMERCIALIZATION.—  
18 Functions relating to product commercialization  
19 as follows:

20 (i) Strategizing and coordinating on  
21 private sector translation and commer-  
22 cialization of products that are produced  
23 with biotechnology.

1                   (ii) Assisting in coordinating a na-  
2                   tional network of testbeds to enable scale-  
3                   up of biotechnology research.

4                   (F) REGULATORY STREAMLINING.—Func-  
5                   tions relating to regulatory streamlining as fol-  
6                   lows:

7                   (i) Coordinating the easing of regu-  
8                   latory burden for types of biotechnology  
9                   products that have become well-understood  
10                  by regulators, including products that  
11                  could have occurred naturally or been de-  
12                  veloped with conventional means.

13                  (ii) Negotiating interagency agree-  
14                  ments that describe clear regulatory path-  
15                  ways for each type of biotechnology prod-  
16                  uct, with information about timelines, deci-  
17                  sion points, expected data requirements,  
18                  clear hand-offs between agencies, and  
19                  other information deemed necessary by the  
20                  Office to resolve regulatory gaps, overlaps,  
21                  and ambiguities for biotechnology prod-  
22                  ucts.

23                  (iii) Providing regular status updates  
24                  to the Office of Management and Budget  
25                  as to the development of clear regulatory

1 pathways, and in the event that the Office  
2 and the Interagency Committee cannot  
3 reach timely agreement on a clear regu-  
4 latory pathway for any product type, as-  
5 sisting the Director of the Office of Man-  
6 agement and Budget in carrying out para-  
7 graph (5).

8 (iv) Not later than 1 year after the  
9 date of the enactment of this Act, jointly  
10 with the Interagency Committee developing  
11 and making available to the public a plan  
12 for regulatory streamlining.

13 (G) BIOSAFETY AND BIOSECURITY.—Func-  
14 tions relating to biosafety and biosecurity as  
15 follows:

16 (i) Developing strategies and coordi-  
17 nating to address biosafety and biosecurity  
18 issues associated with emerging bio-  
19 technology.

20 (ii) Coordinating on assessment and  
21 mitigation of potential biosafety and bio-  
22 security threats relating to biotechnology  
23 research, including through collaboration  
24 with regulatory agencies and industry.



1 (H) WORKFORCE DEVELOPMENT.—Func-  
2 tions relating to workforce development as fol-  
3 lows:

4 (i) Coordinating and developing strat-  
5 egies to develop a domestic workforce for  
6 biotechnology.

7 (ii) Coordinating with appropriate  
8 agencies to establish a national bio-  
9 technology workforce framework to define  
10 biotechnology jobs and skills in public and  
11 private sectors.

12 (iii) Coordinating with appropriate  
13 agencies to conduct an interagency assess-  
14 ment of biotechnology workforce needs,  
15 and subsequently developing and providing  
16 training programs.

17 (I) BIOLITERACY.—Functions relating to  
18 bioliteracy as follows:

19 (i) Coordinating development of plain-  
20 language materials about biotechnology.

21 (ii) Providing central locations, includ-  
22 ing the website required by subsection (c),  
23 for clear, easy-to-find information about  
24 biotechnology for policymakers, innovators,  
25 and the public.

1 (J) INTERNATIONAL PARTNERSHIPS.—

2 Functions relating to international partnerships  
3 as follows:

4 (i) Coordinating Federal regulatory  
5 and commercial diplomacy activities.

6 (ii) Assessing the current regulatory  
7 and commercial diplomacy activities car-  
8 ried out across the Federal Government,  
9 identifying gaps, and developing an out-  
10 reach strategy to improve the regulatory  
11 landscape and market access for products  
12 of the United States.

13 (iii) Identifying non-regulatory solu-  
14 tions for trade and market access concerns  
15 (such as the use of identity preservation  
16 for certain agricultural biotechnology prod-  
17 ucts) and working with relevant govern-  
18 ment agencies and stakeholders to imple-  
19 ment solutions.

20 (K) OTHER.—Such other activities as the  
21 Director considers necessary to advance na-  
22 tional security, economic productivity, and com-  
23 petitiveness related to biotechnology.

24 (4) ADMINISTRATIVE SUPPORT AND AUTHOR-  
25 IZATION OF APPROPRIATIONS.—

1 (A) ADMINISTRATIVE SUPPORT.—The Di-  
2 rector of the National Science Foundation shall  
3 provide support for the administration and im-  
4 plementation of the Initiative, including—

5 (i) appointing and providing com-  
6 pensation for employees of the Office, with-  
7 out regard to any provision relating to ap-  
8 pointment or compensation under title 5,  
9 United States Code, including—

10 (I) deputy directors as needed to  
11 address the responsibilities in para-  
12 graph (3), as determined necessary by  
13 the Director of the Office; and

14 (II) other appropriate employees,  
15 including experts in the science of bio-  
16 technology, biotechnology policy, regu-  
17 latory policy, and science communica-  
18 tion, legal counsel, and software de-  
19 signers and developers, as determined  
20 necessary by the Director of the Of-  
21 fice;

22 (ii) fixing the compensation of employ-  
23 ees of the Office in an amount that does  
24 not exceed the amount of annual com-

1           pensation (excluding expenses) specified in  
2           section 102 of title 3, United States Code;

3           (iii) detailing employees of the Na-  
4           tional Science Foundation to the Office  
5           and receiving the detail of employees from  
6           other agencies to the Office; and

7           (iv) assistance with other costs associ-  
8           ated with running the Initiative, including  
9           physical space, other staff, and overhead  
10          support.

11          (B) AUTHORIZATION OF APPROPRIA-  
12          TIONS.—There are authorized to be appro-  
13          priated to the Director of the National Science  
14          Foundation to carry out subparagraph (A)—

15               (i) \$22,000,000 for fiscal year 2026;

16               (ii) \$35,000,000 for fiscal year 2027;

17               (iii) \$25,000,000 for fiscal year 2028;

18               (iv) \$25,000,000 for fiscal year 2029;

19          and

20               (v) \$25,000,000 for fiscal year 2030.

21          (5) REGULATORY STREAMLINING BY OFFICE OF  
22          MANAGEMENT AND BUDGET.—In the event that the  
23          Office and the Interagency Committee cannot reach  
24          timely agreement on a clear regulatory pathway for  
25          a product type, as described in paragraph

1 (3)(F)(iii), the Director of the Office of Management  
2 and Budget shall—

3 (A) identify overlaps, gaps, or ambiguities  
4 in the regulation for such product type;

5 (B) negotiate an interagency agreement  
6 that describes a clear regulatory pathway for  
7 such product type, with information about  
8 timelines, decision points, expected data re-  
9 quirements, clear hand-offs between agencies,  
10 and other information deemed necessary by the  
11 Office of Management and Budget to resolve  
12 regulatory gaps, overlaps, and ambiguities; and

13 (C) recommend and oversee rulemaking or  
14 changes to guidance as needed to implement  
15 clear regulatory pathways.

16 (6) WIND-DOWN.—

17 (A) IN GENERAL.—The Office shall wind-  
18 down its activities on the date that is 20 years  
19 after the date of the enactment of this Act, and  
20 transition to serving as an executive secretariat  
21 for the Initiative.

22 (B) WIND-DOWN ACTIVITIES.—The activi-  
23 ties specified in this clause are as follows:

24 (i) The transfer of authorities, re-  
25 quirements, resources, personnel, and obli-

1           gations of the Office to the fullest extent  
2           possible to the Interagency Committee and  
3           such elements of the Federal Government  
4           as the Director and the Interagency Com-  
5           mittee considers appropriate.

6           (ii) The Office shall maintain authori-  
7           ties, requirements, resources, personnel,  
8           and obligations necessary to serve as the  
9           executive secretariat for the Initiative, in-  
10          cluding to continue the coordination in  
11          subsection (b)(3)(A), the website in sub-  
12          section (c), and any other activities that  
13          the Director and the Interagency Com-  
14          mittee considers appropriate.

15          (C) TREATMENT OF TRANSFERRED FUNC-  
16          TIONS.—Commencing on the date on which the  
17          Office is terminated under subparagraph (A),  
18          any reference to a requirement or an authority  
19          of the Office that has been transferred to the  
20          Interagency Committee or an element of the  
21          Federal Government shall be treated as a ref-  
22          erence to the Interagency Committee or the ele-  
23          ment of the Federal Government to which such  
24          requirement or authority was transferred pursu-  
25          ant to subparagraph (B).

1 (c) WEBSITE.—

2 (1) IN GENERAL.—Not later than 540 days  
3 after the date of the enactment of this Act, the Di-  
4 rector of the National Biotechnology Coordination  
5 Office and the Interagency Committee shall jointly  
6 develop and publish for the public a single, coordi-  
7 nated Federal website for biotechnology that adheres  
8 to best practices for website design, development,  
9 and maintenance.

10 (2) CONTENTS.—The website developed and  
11 published pursuant to paragraph (1) shall include  
12 the following:

13 (A) A dashboard of Federal Government  
14 activities relating to biotechnology, including in-  
15 formation about open funding opportunities.

16 (B) Plain-language information about bio-  
17 technology, including information for policy-  
18 makers, innovators, trading partners, and the  
19 public.

20 (C) A mechanism for stakeholders to ask a  
21 question and receive a single, coordinated re-  
22 sponse.

23 (D) Mechanisms, which may be populated  
24 over time, to provide consolidated information  
25 about biotechnology product regulation, focus-

ing on products that are regulated by more than 1 Federal agency, with content that includes the following:

(i) A repository of interagency agreements that describe clear regulatory pathways, with links to relevant regulations and guidance documents for each type of biotechnology product.

(ii) A repository of regulatory decision documents for biotechnology products.

(iii) A digital portal that allows submission of a single application and information sharing between Federal agencies.

(3) UPDATES.—The Director and the Interagency Committee shall jointly update the website required by paragraph (1) periodically.

(d) ANNUAL REPORTS.—

(1) IN GENERAL.—Not later than 1 year after the date of the enactment of this Act, and not less frequently than once each year thereafter, except in years in which a national strategy for biotechnology is required under subsection (e), the Director of National Biotechnology Coordination Office and the Interagency Committee shall jointly submit to the Committee on Commerce, Science, and Transpor-



1 tation of the Senate and the Committee on Science,  
2 Space, and Technology of the House of Representa-  
3 tives an annual report on the Initiative.

4 (2) CONTENTS.—Each annual report submitted  
5 pursuant to paragraph (1) shall include, for the pe-  
6 riod covered by the report, the following:

7 (A) An inventory and accounting of Fed-  
8 eral Government activities and spending in sup-  
9 port of the Initiative.

10 (B) Actions that the Director and the  
11 Interagency Committee plan to take in support  
12 of the Initiative in the next fiscal year.

13 (e) NATIONAL STRATEGY.—

14 (1) IN GENERAL.—Not later than 2 years after  
15 the date of the enactment of this Act, and not less  
16 frequently than once every 5 years thereafter, the  
17 Director of National Biotechnology Coordination Of-  
18 fice and the Interagency Committee shall jointly  
19 make available to the public and submit to the Com-  
20 mittee on Commerce, Science, and Transportation of  
21 the Senate and the Committee on Science, Space,  
22 and Technology of the House of Representatives a  
23 comprehensive national strategy for biotechnology.

1           (2) ELEMENTS.—Each national strategy made  
2           available and submitted pursuant to paragraph (1)  
3           shall cover the following:

4                   (A) Actions, goals, and priorities to ad-  
5                   vance the Initiative, including how each Federal  
6                   department and agency will address the require-  
7                   ments of section 6 and how each Federal de-  
8                   partment and agency will integrate bio-  
9                   technology into their own strategies.

10                  (B) Activities that are an urgent priority  
11                  to advance biotechnology in the United States  
12                  but not currently being conducted by Federal  
13                  agencies, with an estimated 5-year budget for  
14                  those activities.

15                  (C) Recommendations for legislative or ad-  
16                  ministrative action to advance biotechnology in  
17                  the United States.

18                  (D) An inventory of all Federal Govern-  
19                  ment databases with biological data with an as-  
20                  sessment that identifies opportunities—

21                          (i) to improve the utility of such data-  
22                          bases, in a manner that does not com-  
23                          promise national security or the privacy  
24                          and security of information within such  
25                          databases; and

1 (ii) to inform investment in such data-  
2 bases as critical infrastructure for the bio-  
3 technology research enterprise.

4 (E) An assessment of United States com-  
5 petitiveness in biotechnology relative to peer  
6 countries, including—

7 (i) contributions of biotechnology to  
8 United States economic growth and other  
9 societal indicators;

10 (ii) contributions of biotechnology to  
11 economic growth in other countries, espe-  
12 cially peer-competitors; and

13 (iii) current barriers to commercializa-  
14 tion of biotechnology products, processes,  
15 and tools in the United States.

16 (F) A national biological data strategy to  
17 ensure biotechnology research fully leverages  
18 plant, animal, and microbe biodiversity, as ap-  
19 propriate and in a manner that does not com-  
20 promise economic competitiveness, national se-  
21 curity, or the privacy or security of human ge-  
22 netic information.

23 (G) The information that is required as a  
24 part of the annual report required by subsection  
25 (d).

1 (f) COMPTROLLER GENERAL REVIEW.—The Comp-  
2 troller General of the United States shall—

3 (1) not later than 3 years after the date of the  
4 enactment of this Act, begin a review to assess the  
5 efficacy of interagency coordination and fulfillment  
6 of the activities conducted by the Office and the  
7 Interagency Committee under the Initiative;

8 (2) not later than 3.5 years after the date of  
9 the enactment of this Act, provide Congress a brief-  
10 ing on the initial findings of the Comptroller General  
11 with respect to the activities described in paragraph  
12 (1);

13 (3) not later than 4 years after the date of the  
14 enactment of this Act, submit to the Committee on  
15 Commerce, Science, and Transportation of the Sen-  
16 ate and the Committee on Science, Space, and Tech-  
17 nology of the House of Representatives a report with  
18 recommendations to improve the Initiative; and

19 (4) repeat the process outlined in paragraphs  
20 (1), (2), and (3) every 5 years thereafter until the  
21 date that is 20 years after the date of the enactment  
22 of this Act.

1 **SEC. 5. CONVENING OF EXPERTS ON BIOTECHNOLOGY RE-**  
2 **SEARCH AND DEVELOPMENT.**

3 (a) IN GENERAL.—The Director of the National Bio-  
4 technology Coordination Office may, in consultation with  
5 the Interagency Committee, convene experts to assess and  
6 inform the activities of the Initiative in a time and manner  
7 as deemed appropriate and necessary by the Director.

8 (b) APPLICATION OF FEDERAL ADVISORY COM-  
9 MITTEE ACT.—Section 1013 of title 5, United States  
10 Code, shall not apply to the convening of experts under  
11 this section.

12 **SEC. 6. AGENCY ACTIVITIES.**

13 Each head of a participating agency shall, in support  
14 of the Initiative and in coordination with the Office, con-  
15 duct or support, in a manner consistent with the duties  
16 and mission of the respective department or agency, the  
17 following activities to advance biotechnology across de-  
18 fense, human health, food and agriculture, energy, space,  
19 mining, environmental stewardship, and other sectors:

20 (1) PLANNING AND COORDINATION.—Activities  
21 relating to planning and coordination as follows:

22 (A) Designating an individual within the  
23 respective department or agency at the level of  
24 Assistant Secretary to lead the biotechnology  
25 activities for the department or agency, if such  
26 person is not already designated, and to serve

1 as the department or agency liaison to the Ini-  
2 tiative and member of the Interagency Com-  
3 mittee.

4 (B) Designating individuals within the re-  
5 spective department or agency to serve as mem-  
6 bers of subcommittees that may be established  
7 by the Interagency Committee.

8 (C) Coordinating activities of the partici-  
9 pating agency that relate to biotechnology with  
10 the Office.

11 (D) Implementing applicable portions of  
12 the national strategy required by section 4(e) in  
13 ways that improve government efficiency and  
14 reduce redundancy.

15 (E) Providing insight and information  
16 about biotechnology to the heads of other Fed-  
17 eral departments and agencies and to Congress.

18 (F) Leveraging horizon scanning and tech-  
19 nology foresight to ensure United States leader-  
20 ship in future biotechnology advancements.

21 (2) NATIONAL SECURITY.—Activities relating to  
22 national security as follows:

23 (A) Analyzing ongoing and emerging  
24 threats from foreign adversary development and  
25 application of biotechnology, including foreign

1 investments and acquisition of United States  
2 capabilities, technologies, and biological data.

3 (B) Providing expertise to address foreign  
4 investments and acquisition from adversarial  
5 countries.

6 (C) Analyzing and identifying actions to  
7 mitigate supply chain risks posed by foreign ad-  
8 versary involvement in such supply chains.

9 (D) Coordinating and ensuring information  
10 sharing with foreign service officers regarding  
11 threats to and opportunities for biotechnology.

12 (E) Coordinating with industry on threat  
13 information sharing, vulnerability disclosure,  
14 and risk mitigation for cybersecurity and infra-  
15 structure risks, including risks to biological  
16 data and related physical and digital infrastruc-  
17 ture and devices.

18 (F) Improving cybersecurity and stress-  
19 testing related to sensitive biological data and  
20 to biotechnology infrastructure, tools, and in-  
21 strumentation.

22 (3) RESEARCH AND DEVELOPMENT.—Activities  
23 relating to research and development as follows:

24 (A) Providing sustained support for re-  
25 search and development that accelerates sci-

entific understanding and technological innovation in biotechnology.

(B) Conducting joint agency solicitation and selection of applications for funding of individual grants, collaborative grants, and interdisciplinary research centers.

(C) Developing instrumentation, equipment, and infrastructure for biotechnology, including to optimize, standardize, scale, and deliver new products and solutions.

(D) Developing standard reference materials and measurements to promote interoperability between new component technologies and processes for biotechnology discovery, innovation, and production processes.

(E) Increasing understanding of the risks and benefits of biotechnology, including how products developed with biotechnology can affect or protect the environment.

(F) Increasing understanding of the ethical, legal, and social implications of biotechnology, including research that contributes to public understanding of biotechnology.

(4) DATA AND DATABASES.—Activities relating to data and databases as follows:



1           (A) Providing sustained support for bio-  
2           logical data, databases, and related tools to ad-  
3           vance human health and the understanding of  
4           animals, plants, microbes, and other organisms.

5           (B) Establishing, curating, and maintain-  
6           ing genomics, epigenomics, and other relevant  
7           omics and biological data and databases, such  
8           as through a centralized biological data access  
9           hub with appropriate protections for the privacy  
10          or security of information within such data-  
11          bases.

12          (C) Developing standards for biological  
13          data and databases, including for curation,  
14          interoperability, and protection of privacy and  
15          security.

16          (D) Developing computational tools, in-  
17          cluding artificial intelligence tools, to accelerate  
18          research and innovation using biological data  
19          and databases.

20          (E) Developing tools that use omics and  
21          associated bioinformatic sciences to improve  
22          monitoring, management, assessments, and  
23          forecasts.

24          (5) PRODUCT COMMERCIALIZATION.—Activities  
25          relating to product commercialization as follows:

1           (A) Providing sustained support for private  
2           sector translation and commercialization of  
3           products that are produced with biotechnology,  
4           including biomanufacturing.

5           (B) Utilizing existing Federal programs,  
6           such as the Small Business Innovation Re-  
7           search Program and the Small Business Tech-  
8           nology Transfer Program (as described in sec-  
9           tion 9 of the Small Business Act (15 U.S.C.  
10          638)), in support of biotechnology, including to  
11          support proof of concept activities, and the for-  
12          mation of startup companies.

13          (C) Accelerating the translation, scale-up,  
14          and commercialization of new products, proc-  
15          esses, and technologies in order to transfer fun-  
16          damental research results to industry and accel-  
17          erate commercial applications.

18          (D) Facilitating public-private partnerships  
19          in biotechnology research and development that  
20          address and reduce barriers to scaling up bio-  
21          technology innovations.

22          (E) Supporting a national network of  
23          testbeds based on open standards, interfaces,  
24          and processes, including by repurposing existing

1 facilities, to enable scale-up of biotechnology re-  
2 search.

3 (F) Providing incentives for retooling of in-  
4 dustrial sites across the United States to foster  
5 a pivot to biotechnology.

6 (G) Providing access to user facilities with  
7 advanced or unique equipment, services, mate-  
8 rials, and other resources, including secure ac-  
9 cess to high-performance computing, as appro-  
10 priate, to industry, institutions of higher edu-  
11 cation, nonprofit organizations, and government  
12 agencies to perform research and testing.

13 (6) REGULATORY STREAMLINING.—Activities  
14 relating to regulatory streamlining as follows:

15 (A) Conducting and coordinating regu-  
16 latory streamlining for products that are pro-  
17 duced with biotechnology.

18 (B) Easing regulatory burden for types of  
19 biotechnology products that have become well-  
20 understood by regulators, including products  
21 that could have occurred naturally or been de-  
22 veloped with conventional means.

23 (C) Establishing clear regulatory pathways  
24 for biotechnology products, including through

1 short-term regulatory trials to establish new or  
2 update existing regulatory pathways.

3 (D) Ensuring consistent, risk-propor-  
4 tionate regulation of biotechnology research and  
5 development activities, including for release of  
6 products or organisms into the environment.

7 (E) Conducting horizon scanning to iden-  
8 tify novel biotechnology products and develop  
9 clear regulatory pathways for such products.

10 (7) BIOSAFETY AND BIOSECURITY.—Activities  
11 relating to biosafety and biosecurity as follows:

12 (A) Addressing biosafety, biosecurity, and  
13 responsible biology issues associated with  
14 emerging biotechnology.

15 (B) Developing an applied management  
16 plan to address biological risks of biotechnology  
17 research.

18 (C) Creating an adaptable, evidence-based  
19 framework to respond to emerging biosecurity  
20 challenges that considers and informs updates  
21 of existing biosecurity governance policies, guid-  
22 ance, and directives and identifies necessary  
23 safeguards for new products, processes, and  
24 systems of biotechnology.

1 (D) Conducting outreach to industry, insti-  
2 tutions of higher education, nonprofit organiza-  
3 tions, and government agencies to increase  
4 awareness of biosafety and biosecurity implica-  
5 tions of biotechnology research.

6 (8) WORKFORCE DEVELOPMENT.—Activities re-  
7 lating to workforce development as follows:

8 (A) Providing sustained support for devel-  
9 opment of a domestic biotechnology workforce.

10 (B) Ensuring that Congress and Federal  
11 departments and agencies have access to nec-  
12 essary expertise across national security and  
13 emerging biotechnology issues.

14 (C) Supporting Federal biotechnology edu-  
15 cation and workforce training programs and ini-  
16 tiatives for students and workers.

17 (D) Supporting education and training of  
18 undergraduate and graduate students in bio-  
19 technology, including biomanufacturing, bio-  
20 process engineering, and computational science  
21 applied to biotechnology.

22 (E) Connecting researchers, graduate stu-  
23 dents, and postdoctoral fellows with entrepre-  
24 neurship education and training opportunities,  
25 including to award grants, on a competitive

1 basis, that enable institutions to support grad-  
2 uate students, and postdoctoral fellows who per-  
3 form some of their biotechnology research in an  
4 industry setting.

5 (F) Supporting professional development,  
6 continuing education, and skills development  
7 (such as re-skilling and upskilling) for veterans,  
8 industry workers, and technology professionals.

9 (G) Supporting curriculum development  
10 and research experiences for secondary, under-  
11 graduate, and graduate students in bio-  
12 technology, including through support for grad-  
13 uate fellowships and traineeships in bio-  
14 technology to ensure that students are receiving  
15 up-to-date training that keeps pace with bio-  
16 technologies as they evolve and meets industry  
17 workforce needs so students are qualified for  
18 employment.

19 (H) Supporting curriculum development  
20 and research experiences in biotechnology and  
21 associated data and information sciences across  
22 the Federal workforce, including for the mili-  
23 tary education system.

24 (9) BIOLITERACY.—Activities relating to biolit-  
25 eracy as follows:

1 (A) Providing clear, easy-to-find informa-  
2 tion about biotechnology for policymakers,  
3 innovators, and the public.

4 (B) Supporting greater evidence-based  
5 public discourse about the benefits and risks of  
6 biotechnology.

7 (C) Ensuring that public input and out-  
8 reach are integrated into Federal biotechnology  
9 activities through regular and ongoing public  
10 discussions such as workshops, consensus con-  
11 ferences, and educational events, as may be ap-  
12 propriate.

13 (10) INTERNATIONAL PARTNERSHIPS.—Activi-  
14 ties relating to international partnerships as follows:

15 (A) Developing an internal international  
16 engagement strategy for the respective depart-  
17 ment or agency, in cooperation with relevant  
18 interagency partners.

19 (B) Strengthening and developing bilateral  
20 and multilateral relationships to advance United  
21 States priorities in biotechnology abroad.

22 (C) Providing sustained support and co-  
23 ordinating interagency activities in international  
24 biotechnology outreach and engagement with al-  
25 lies and partners.

1           (D) Engaging in coordinated regulatory  
2           and commercial diplomacy to better align bio-  
3           technology regulations and expand market ac-  
4           cess for biotechnology products.

5           (E) Supporting the development of inter-  
6           national standards and norms for bio-  
7           technology, including to define shared values  
8           and interests.

9           (F) Supporting biological data-sharing  
10          agreements with partner countries.

11          (G) Supporting biotechnology talent ex-  
12          changes with partner countries, including  
13          through fellowships, work authorization pro-  
14          grams, and other mechanisms.

15          (H) Supporting harmonization of multilat-  
16          eral export controls to protect against misuse of  
17          biotechnology.

18          (11) OTHER.—Such other activities as the head  
19          of the participating agency determines may be need-  
20          ed to advance national security, economic produc-  
21          tivity, and competitiveness relating to biotechnology.

○