

AMENDMENT TO RULES COMMITTEE PRINT 119–

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OFFERED BY MRS. BICE OF OKLAHOMA

At the end of title XVII, add the following new subtitle:

1 Subtitle C—National Biotechnology
2 Initiative

3 SEC. 17 ____ 01. DEFINITIONS.

4 In this subtitle:

5 (1) BIOLITERACY.—The term “bioliteracy” re-
6 fers to the concept of imbuing people, personnel, or
7 teams with an understanding of and ability to en-
8 gage with biology and biotechnology.

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

14 (3) BIOMANUFACTURING.—The term “bio-
15 manufacturing” means the application of bio-
16 technology to manufacturing.

17 (4) BIOTECHNOLOGY.—The term “bio-
18 technology” means the application of science and en-

1 gineering in the direct or indirect use of living orga-
2 nisms, or parts or products of living organisms, in-
3 cluding modified forms.

4 (5) DIRECTOR OF THE NATIONAL BIO-
5 TECHNOLOGY COORDINATION OFFICE.—The term
6 “Director of the National Biotechnology Coordina-
7 tion Office” means the individual appointed pursu-
8 ant to section 17____03(b)(2)(A).

9 (6) INITIATIVE.—The term “Initiative” means
10 the National Biotechnology Initiative established
11 under section 17____02.

12 (7) INTERAGENCY COMMITTEE.—The term
13 “Interagency Committee” means the interagency
14 committee designated pursuant to section
15 17____03(a)(1).

16 (8) OFFICE.—The term “Office” means the
17 National Biotechnology Coordination Office estab-
18 lished under section 17____03(b).

19 (9) PARTICIPATING AGENCY.—The term “par-
20 ticipating agency” means a department, office, or
21 agency set forth under section 17____02(b).

22 **SEC. 17__02. AUTHORIZATION OF THE NATIONAL BIO-**
23 **TECHNOLOGY INITIATIVE.**

24 (a) INITIATIVE REQUIRED.—

1 (1) IN GENERAL.—The President, acting
2 through the Executive Office of the President, shall
3 implement an initiative to advance national security,
4 economic productivity, and competitiveness through
5 advancement and coordination of Federal activities
6 relating to biotechnology.

7 (2) DESIGNATION.—The initiative implemented
8 pursuant to paragraph (1) shall be known as the
9 “National Biotechnology Initiative”.

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

12 (1) The Department of Agriculture.

13 (2) The Department of Commerce.

14 (3) The Department of Defense.

15 (4) The Department of Energy.

16 (5) The Department of Health and Human
17 Services.

18 (6) The Department of Homeland Security.

19 (7) The Department of the Interior.

20 (8) The Department of State.

21 (9) The Environmental Protection Agency.

22 (10) The National Aeronautics and Space Ad-
23 ministration.

24 (11) The National Science Foundation.

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

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

5 (14) Such other Federal departments and agen-
6 cies as the Director of the National Biotechnology
7 Coordination Office considers appropriate.

8 (c) ACTIVITIES.—Each head of a participating agen-
9 cy shall carry out the Initiative, including by carrying out
10 the activities required by section 17____05 and by ad-
11 dressing and coordinating the following:

12 (1) Federal activities relating to biotechnology,
13 including to create and maintain a national strategy
14 on biotechnology.

15 (2) National security implications of emerging
16 biotechnology.

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

20 (4) Sustained support for biological data, data-
21 bases, and related tools as a strategic national re-
22 source.

23 (5) Private sector translation and commer-
24 cialization of products that are produced with bio-
25 technology.

1 (6) Regulatory streamlining for products that
2 are produced with biotechnology.

3 (7) Biosafety and biosecurity issues associated
4 with emerging biotechnology.

5 (8) Development of a domestic workforce, in-
6 cluding the Federal workforce, to advance bio-
7 technology across the United States.

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

11 (10) International partnerships, including regu-
12 latory and commercial diplomacy.

13 (11) Such other activities relating to bio-
14 technology as the Director of the National Bio-
15 technology Coordination Office and the Interagency
16 Committee jointly determine are needed to advance
17 national security, economic productivity, and com-
18 petitiveness relating to biotechnology.

19 **SEC. 17___03. INITIATIVE COORDINATION.**

20 (a) INTERAGENCY COMMITTEE.—

21 (1) DESIGNATION.—Not later than 180 days
22 after the date of the enactment of this subtitle, the
23 President shall, acting through the Executive Office
24 of the President, designate an interagency committee
25 to coordinate activities of the Initiative.

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

3 (A) work with the Director of the National
4 Biotechnology Coordination Office to oversee
5 the planning, management, and coordination of
6 the Initiative;

7 (B) ensure the department or agency of
8 the member supports the Initiative through rel-
9 evant activities set forth under section
10 17____05;

11 (C) keep the other members of the Inter-
12 agency Committee apprised of the activities de-
13 scribed in subparagraph (B); and

14 (D) communicate activities of the Inter-
15 agency Committee with relevant components of
16 the Department or agency of the member.

17 (3) MEMBERSHIP .—The Interagency Com-
18 mittee shall include 1 member at the Assistant Sec-
19 retary level from each participating agency selected
20 by the head of the participating agency.

21 (4) CO-CHAIRPERSONS.—

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

1 (i) one co-chairperson shall be the Di-
2 rector of the National Biotechnology Co-
3 ordination Office; and

4 (ii) two co-chairperson shall be se-
5 lected by the members of the Interagency
6 Committee from among the members of
7 the Interagency Committee.

8 (B) TERMS.—Each co-chairperson selected
9 pursuant to subparagraph (A)(ii) shall serve a
10 term of 2 years, except for the first term the
11 Interagency Committee shall select one co-
12 chairperson to serve a term of 3 years, such
13 that subsequent terms are staggered.

14 (C) VACANCIES.—

15 (i) IN GENERAL.—A vacancy under
16 this paragraph shall be filled in the man-
17 ner in which the original appointment was
18 made and shall be subject to any condi-
19 tions that applied with respect to the origi-
20 nal appointment.

21 (ii) FILLING UNEXPIRED TERM.—An
22 individual chosen to fill a vacancy shall be
23 appointed for the unexpired term of the co-
24 chairperson replaced.

1 (D) QUORUM.—A majority of the members
2 of the Interagency Committee shall constitute a
3 quorum for the purposes of voting for co-chair-
4 persons under clauses (i)(II) and (ii)(II) of sub-
5 paragraph (A), with co-chairpersons selected by
6 the member who receive the highest plurality of
7 votes.

8 (E) LIMITATION.—A member of the Inter-
9 agency Committee from a particular Federal
10 department or agency may not serve consecu-
11 tive terms as co-chairperson of the Interagency
12 Committee.

13 (b) NATIONAL BIOTECHNOLOGY COORDINATION OF-
14 FICE.—

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

17 (A) IN GENERAL.—Not later than 180
18 days after the date of the enactment of this
19 subtitle, the President shall establish an office
20 in the Executive Office of the President to sup-
21 port the Initiative.

22 (B) DESIGNATION.—The office established
23 pursuant to subparagraph (A) shall be known
24 as the “National Biotechnology Coordination
25 Office”.

1 (2) DIRECTOR OF NATIONAL BIOTECHNOLOGY
2 COORDINATION OFFICE.—

3 (A) APPOINTMENT.—Not later than 180
4 days after the date of the enactment of this
5 subtitle, the President shall appoint an indi-
6 vidual to serve as the Director of the National
7 Biotechnology Coordination Office.

8 (B) DUTIES.—The duties of the Director
9 of the National Biotechnology Coordination Of-
10 fice are as follows:

11 (i) To serve as the principal advisor to
12 the President for biotechnology.

13 (ii) To administer the functions of the
14 Office set forth under paragraph (3).

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

17 (i) advise the Director of the Office of
18 Management and Budget for the purposes
19 of tracking and adjusting agency spending
20 relating to biotechnology, including to en-
21 sure that Federal efforts are complemen-
22 tary and not duplicative;

23 (ii) convene members of the Inter-
24 agency Committee in order to advance and

1 coordinate Federal activities relating to
2 biotechnology;

3 (iii) coordinate Federal regulation of
4 products that are produced with bio-
5 technology;

6 (iv) select, appoint, employ, and fix
7 the compensation of such officers and em-
8 ployees as are necessary and prescribe
9 their duties;

10 (v) enter into and perform such con-
11 tracts, leases, cooperative agreements, or
12 other transactions, as appropriate, to the
13 conduct of the work of the Office;

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

17 (vii) accept voluntary and uncompen-
18 sated services, notwithstanding the provi-
19 sions of section 1342 of title 31, United
20 States Code.

21 (3) FUNCTIONS OF THE OFFICE.—The func-
22 tions of the Office shall be, in support of the Initia-
23 tive, the following:

1 (A) PLANNING AND COORDINATION.—

2 Functions relating to planning and coordination
3 as follows:

4 (i) Working with the Interagency
5 Committee to oversee the planning, man-
6 agement, and coordination of Federal ac-
7 tivities relating to biotechnology.

8 (ii) Providing technical and adminis-
9 trative support to the Interagency Com-
10 mittee.

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

14 (iv) Coordinating a fellowship pro-
15 gram in which Federal employees are de-
16 tailed to 1 or more Federal agencies to
17 gain greater understanding of bio-
18 technology activities outside of their home
19 agency.

20 (v) Building and maintaining a co-
21 ordinated website for Federal activities re-
22 lating to biotechnology pursuant to sub-
23 section (c).

24 (vi) Coordinating development of an
25 annual report under subsection (d) and a

1 national strategy as required by subsection
2 (e).

3 (vii) Conducting such other activities
4 to support the Initiative as the Director
5 considers appropriate.

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

8 (i) Assessing and addressing the na-
9 tional security and economic security impli-
10 cations of emerging biotechnology.

11 (ii) Identifying and remedying any
12 major needs or information gaps in current
13 national security assessments and activi-
14 ties, including to conduct counterintel-
15 ligence efforts to fill gaps relating to bio-
16 technology.

17 (iii) Providing coordination in ad-
18 dressing foreign investments and acquisi-
19 tion from adversarial countries.

20 (C) RESEARCH AND DEVELOPMENT.—
21 Functions relating to research and development
22 as follows:

23 (i) Coordinating sustained support for
24 research and development that accelerates

1 scientific understanding and technological
2 innovation in biotechnology.

3 (ii) Facilitating joint agency solicita-
4 tions for funding for individual grants, col-
5 laborative grants, and interdisciplinary re-
6 search centers.

7 (iii) Developing and proposing focus
8 areas or challenges for research funding
9 meant to advance biotechnology, particu-
10 larly relating to convergence with other
11 technologies such as artificial intelligence.

12 (iv) Developing, standardizing, and
13 deploying robust mechanisms for docu-
14 menting and quantifying the outputs and
15 economic benefits of biotechnology.

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

18 (i) Coordinating sustained support for
19 biological data, databases, and related
20 tools as a strategic national resource to ad-
21 vance human health and the understanding
22 of animals, plants, microbes, and other or-
23 ganisms.

1 (ii) Recommending actions to inte-
2 grate security into biological data access
3 and international reciprocity agreements.

4 (iii) Coordinating frameworks for bio-
5 logical data standardization to create
6 datasets that are interoperable and usable
7 by advanced computation methods such as
8 artificial intelligence.

9 (E) PRODUCT COMMERCIALIZATION.—
10 Functions relating to product commercialization
11 as follows:

12 (i) Strategizing and coordinating on
13 private sector translation and commer-
14 cialization of products that are produced
15 with biotechnology.

16 (ii) Assisting in coordinating a na-
17 tional network of testbeds to enable scale-
18 up of biotechnology research.

19 (F) REGULATORY STREAMLINING.—Func-
20 tions relating to regulatory streamlining as fol-
21 lows:

22 (i) Coordinating the easing of regu-
23 latory burden for types of biotechnology
24 products that have become well-understood
25 by regulators, including products that

1 could have occurred naturally or been de-
2 veloped with conventional means.

3 (ii) Negotiating interagency agree-
4 ments that describe clear regulatory path-
5 ways for each type of biotechnology prod-
6 uct, with information about timelines, deci-
7 sion points, expected data requirements,
8 clear hand-offs between agencies, and
9 other information deemed necessary by the
10 Office to resolve regulatory gaps, overlaps,
11 and ambiguities for biotechnology prod-
12 ucts.

13 (iii) Providing regular status updates
14 to the Office of Management and Budget
15 as to the development of clear regulatory
16 pathways, and in the event that the Office
17 and the Interagency Committee cannot
18 reach timely agreement on a clear regu-
19 latory pathway for any product type, as-
20 sisting the Director of the Office of Man-
21 agement and Budget in carrying out para-
22 graph (5).

23 (iv) Not later than 1 year after the
24 date of the enactment of this subtitle,
25 jointly with the Interagency Committee de-

1 veloping and making available to the public
2 a plan for regulatory streamlining.

3 (G) BIOSAFETY AND BIOSECURITY.—Func-
4 tions relating to biosafety and biosecurity as
5 follows:

6 (i) Developing strategies and coordi-
7 nating to address biosafety and biosecurity
8 issues associated with emerging bio-
9 technology.

10 (ii) Coordinating on assessment and
11 mitigation of potential biosafety and bio-
12 security threats relating to biotechnology
13 research, including through collaboration
14 with regulatory agencies and industry.

15 (H) WORKFORCE DEVELOPMENT.—Func-
16 tions relating to workforce development as fol-
17 lows:

18 (i) Coordinating and developing strat-
19 egies to develop a domestic workforce for
20 biotechnology.

21 (ii) Coordinating with appropriate
22 agencies to establish a national bio-
23 technology workforce framework to define
24 biotechnology jobs and skills in public and
25 private sectors.

1 (iii) Coordinating with appropriate
2 agencies to conduct an interagency assess-
3 ment of biotechnology workforce needs,
4 and subsequently developing and providing
5 training programs.

6 (I) BIOLITERACY.—Functions relating to
7 bioliteracy as follows:

8 (i) Coordinating development of plain-
9 language materials about biotechnology.

10 (ii) Providing central locations, includ-
11 ing the website required by subsection (c),
12 for clear, easy-to-find information about
13 biotechnology for policymakers, innovators,
14 and the public.

15 (J) INTERNATIONAL PARTNERSHIPS.—
16 Functions relating to international partnerships
17 as follows:

18 (i) Coordinating Federal regulatory
19 and commercial diplomacy activities.

20 (ii) Assessing the current regulatory
21 and commercial diplomacy activities car-
22 ried out across the Federal Government,
23 identifying gaps, and developing an out-
24 reach strategy to improve the regulatory

1 landscape and market access for products
2 of the United States.

3 (iii) Identifying non-regulatory solu-
4 tions for trade and market access concerns
5 (such as the use of identity preservation
6 for certain agricultural biotechnology prod-
7 ucts) and working with relevant govern-
8 ment agencies and stakeholders to imple-
9 ment solutions.

10 (K) OTHER.—Such other activities as the
11 Director considers necessary to advance na-
12 tional security, economic productivity, and com-
13 petitiveness related to biotechnology.

14 (4) ADMINISTRATIVE SUPPORT AND AUTHOR-
15 IZATION OF APPROPRIATIONS.—

16 (A) ADMINISTRATIVE SUPPORT.—The Di-
17 rector of the National Science Foundation shall
18 provide support for the administration and im-
19 plementation of the Initiative, including—

20 (i) appointing and providing com-
21 pensation for employees of the Office, with-
22 out regard to any provision relating to ap-
23 pointment or compensation under title 5,
24 United States Code, including—

1 (I) deputy directors as needed to
2 address the responsibilities in para-
3 graph (3), as determined necessary by
4 the Director of the Office; and

5 (II) other appropriate employees,
6 including experts in the science of bio-
7 technology, biotechnology policy, regu-
8 latory policy, and science communica-
9 tion, legal counsel, and software de-
10 signers and developers, as determined
11 necessary by the Director of the Of-
12 fice;

13 (ii) fixing the compensation of employ-
14 ees of the Office in an amount that does
15 not exceed the amount of annual com-
16 pensation (excluding expenses) specified in
17 section 102 of title 3, United States Code;

18 (iii) detailing employees of the Na-
19 tional Science Foundation to the Office
20 and receiving the detail of employees from
21 other agencies to the Office; and

22 (iv) assistance with other costs associ-
23 ated with running the Initiative, including
24 physical space, other staff, and overhead
25 support.

1 (B) AUTHORIZATION OF APPROPRIA-
2 TIONS.—There are authorized to be appro-
3 priated to the Director of the National Science
4 Foundation to carry out subparagraph (A)—

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

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

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

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

9 and

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

11 (5) REGULATORY STREAMLINING BY OFFICE OF
12 MANAGEMENT AND BUDGET.—In the event that the
13 Office and the Interagency Committee cannot reach
14 timely agreement on a clear regulatory pathway for
15 a product type, as described in paragraph
16 (3)(F)(iii), the Director of the Office of Management
17 and Budget shall—

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

20 (B) negotiate an interagency agreement
21 that describes a clear regulatory pathway for
22 such product type, with information about
23 timelines, decision points, expected data re-
24 quirements, clear hand-offs between agencies,
25 and other information deemed necessary by the

1 Office of Management and Budget to resolve
2 regulatory gaps, overlaps, and ambiguities; and

3 (C) recommend and oversee rulemaking or
4 changes to guidance as needed to implement
5 clear regulatory pathways.

6 (6) WIND-DOWN .—

7 (A) IN GENERAL.—The Office shall wind-
8 down its activities on the date that is 20 years
9 after the date of the enactment of this subtitle,
10 and transition to serving as an executive secre-
11 tariat for the Initiative.

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

14 (i) The transfer of authorities, re-
15 quirements, resources, personnel, and obli-
16 gations of the Office to the fullest extent
17 possible to the Interagency Committee and
18 such elements of the Federal Government
19 as the Director and the Interagency Com-
20 mittee considers appropriate.

21 (ii) The Office shall maintain authori-
22 ties, requirements, resources, personnel,
23 and obligations necessary to serve as the
24 executive secretariat for the Initiative, in-
25 cluding to continue the coordination in

1 subsection (b)(3)(A), the website in sub-
2 section (c), and any other activities that
3 the Director and the Interagency Com-
4 mittee considers appropriate.

5 (C) TREATMENT OF TRANSFERRED FUNC-
6 TIONS.—Commencing on the date on which the
7 Office is terminated under subparagraph (A),
8 any reference to a requirement or an authority
9 of the Office that has been transferred to the
10 Interagency Committee or an element of the
11 Federal Government shall be treated as a ref-
12 erence to the Interagency Committee or the ele-
13 ment of the Federal Government to which such
14 requirement or authority was transferred pursu-
15 ant to subparagraph (B).

16 (c) WEBSITE.—

17 (1) IN GENERAL.—Not later than 540 days
18 after the date of the enactment of this subtitle, the
19 Director of the National Biotechnology Coordination
20 Office and the Interagency Committee shall jointly
21 develop and publish for the public a single, coordi-
22 nated Federal website for biotechnology that adheres
23 to best practices for website design, development,
24 and maintenance.

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

4 (A) A dashboard of Federal Government
5 activities relating to biotechnology, including in-
6 formation about open funding opportunities.

7 (B) Plain-language information about bio-
8 technology, including information for policy-
9 makers, innovators, trading partners, and the
10 public.

11 (C) A mechanism for stakeholders to ask a
12 question and receive a single, coordinated re-
13 sponse.

14 (D) Mechanisms, which may be populated
15 over time, to provide consolidated information
16 about biotechnology product regulation, focus-
17 ing on products that are regulated by more
18 than 1 Federal agency, with content that in-
19 cludes the following:

20 (i) A repository of interagency agree-
21 ments that describe clear regulatory path-
22 ways, with links to relevant regulations
23 and guidance documents for each type of
24 biotechnology product.

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

3 (iii) A digital portal that allows sub-
4 mission of a single application and infor-
5 mation sharing between Federal agencies.

6 (3) UPDATES.—The Director and the Inter-
7 agency Committee shall jointly update the website
8 required by paragraph (1) periodically.

9 (d) ANNUAL REPORTS.—

10 (1) IN GENERAL.—Not later than 1 year after
11 the date of the enactment of this subtitle, and not
12 less frequently than once each year thereafter, ex-
13 cept in years in which a national strategy for bio-
14 technology is required under subsection (e), the Di-
15 rector of National Biotechnology Coordination Office
16 and the Interagency Committee shall jointly submit
17 to the Committee on Commerce, Science, and Trans-
18 portation of the Senate and the Committee on
19 Science, Space, and Technology of the House of
20 Representatives an annual report on the Initiative.

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

1 (A) An inventory and accounting of Fed-
2 eral Government activities and spending in sup-
3 port of the Initiative.

4 (B) Actions that the Director and the
5 Interagency Committee plan to take in support
6 of the Initiative in the next fiscal year.

7 (e) NATIONAL STRATEGY.—

8 (1) IN GENERAL.—Not later than 2 years after
9 the date of the enactment of this subtitle, and not
10 less frequently than once every 5 years thereafter,
11 the Director of National Biotechnology Coordination
12 Office and the Interagency Committee shall jointly
13 make available to the public and submit to the Com-
14 mittee on Commerce, Science, and Transportation of
15 the Senate and the Committee on Science, Space,
16 and Technology of the House of Representatives a
17 comprehensive national strategy for biotechnology.

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

21 (A) Actions, goals, and priorities to ad-
22 vance the Initiative, including how each Federal
23 department and agency will address the require-
24 ments of section 17____05 and how each Fed-

1 eral department and agency will integrate bio-
2 technology into their own strategies.

3 (B) Activities that are an urgent priority
4 to advance biotechnology in the United States
5 but not currently being conducted by Federal
6 agencies, with an estimated 5 year budget for
7 those activities.

8 (C) Recommendations for legislative or ad-
9 ministrative action to advance biotechnology in
10 the United States.

11 (D) An inventory of all Federal Govern-
12 ment databases with biological data with an as-
13 sessment that identifies opportunities—

14 (i) to improve the utility of such data-
15 bases, in a manner that does not com-
16 promise national security or the privacy
17 and security of information within such
18 databases; and

19 (ii) to inform investment in such data-
20 bases as critical infrastructure for the bio-
21 technology research enterprise.

22 (E) An assessment of United States com-
23 petitiveness in biotechnology relative to peer
24 countries, including—

1 (i) contributions of biotechnology to
2 United States economic growth and other
3 societal indicators;

4 (ii) contributions of biotechnology to
5 economic growth in other countries, espe-
6 cially peer-competitors; and

7 (iii) current barriers to commercializa-
8 tion of biotechnology products, processes,
9 and tools in the United States.

10 (F) A national biological data strategy to
11 ensure biotechnology research fully leverages
12 plant, animal, and microbe biodiversity, as ap-
13 propriate and in a manner that does not com-
14 promise economic competitiveness, national se-
15 curity, or the privacy or security of human ge-
16 netic information.

17 (G) The information that is required as a
18 part of the annual report required by subsection
19 (d).

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

22 (1) not later than 3 years after the date of the
23 enactment of this subtitle, begin a review to assess
24 the efficacy of interagency coordination and fulfil-

1 ment of the activities conducted by the Office and
2 the Interagency Committee under the Initiative;

3 (2) not later than 3.5 years after the date of
4 the enactment of this subtitle, provide Congress a
5 briefing on the initial findings of the Comptroller
6 General with respect to the activities described in
7 paragraph (1);

8 (3) not later than 4 years after the date of the
9 enactment of this subtitle, submit to the Committee
10 on Commerce, Science, and Transportation of the
11 Senate and the Committee on Science, Space, and
12 Technology of the House of Representatives a report
13 with recommendations to improve the Initiative; and
14 (4) repeat the process outlined in paragraphs
15 (1), (2), and (3) every 5 years thereafter until the
16 date that is 20 years after the date of the enactment
17 of this subtitle.

18 **SEC. 17___04. CONVENING OF EXPERTS ON BIO-**
19 **TECHNOLOGY RESEARCH AND DEVELOP-**
20 **MENT.**

21 (a) IN GENERAL.—The Director of the National Bio-
22 technology Coordination Office may, in consultation with
23 the Interagency Committee, convene experts to assess and
24 inform the activities of the Initiative in a time and manner
25 as deemed appropriate and necessary by the Director.

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

5 **SEC. 17___05. AGENCY ACTIVITIES.**

6 Each head of a participating agency shall, in support
7 of the Initiative and in coordination with the Office, con-
8 duct or support, in a manner consistent with the duties
9 and mission of the respective department or agency, the
10 following activities to advance biotechnology across de-
11 fense, human health, food and agriculture, energy, space,
12 mining, environmental stewardship, and other sectors:

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

15 (A) Designating an individual within the
16 respective department or agency at the level of
17 Assistant Secretary to lead the biotechnology
18 activities for the department or agency, if such
19 person is not already designated, and to serve
20 as the department or agency liaison to the Ini-
21 tiative and member of the Interagency Com-
22 mittee.

23 (B) Designating individuals within the re-
24 spective department or agency to serve as mem-

1 bers of subcommittees that may be established
2 by the Interagency Committee.

3 (C) Coordinating activities of the partici-
4 pating agency that relate to biotechnology with
5 the Office.

6 (D) Implementing applicable portions of
7 the national strategy required by section
8 17____03(e) in ways that improve government
9 efficiency and reduce redundancy.

10 (E) Providing insight and information
11 about biotechnology to the heads of other Fed-
12 eral departments and agencies and to Congress.

13 (F) Leveraging horizon scanning and tech-
14 nology foresight to ensure United States leader-
15 ship in future biotechnology advancements.

16 (2) NATIONAL SECURITY.—Activities relating to
17 national security as follows:

18 (A) Analyzing ongoing and emerging
19 threats from foreign adversary development and
20 application of biotechnology, including foreign
21 investments and acquisition of United States
22 capabilities, technologies, and biological data.

23 (B) Providing expertise to address foreign
24 investments and acquisition from adversarial
25 countries.

1 (C) Analyzing and identifying actions to
2 mitigate supply chain risks posed by foreign ad-
3 versary involvement in such supply chains.

4 (D) Coordinating and ensuring information
5 sharing with foreign service officers regarding
6 threats to and opportunities for biotechnology.

7 (E) Coordinating with industry on threat
8 information sharing, vulnerability disclosure,
9 and risk mitigation for cybersecurity and infra-
10 structure risks, including risks to biological
11 data and related physical and digital infrastruc-
12 ture and devices.

13 (F) Improving cybersecurity and stress-
14 testing related to sensitive biological data and
15 to biotechnology infrastructure, tools, and in-
16 strumentation.

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

19 (A) Providing sustained support for re-
20 search and development that accelerates sci-
21 entific understanding and technological innova-
22 tion in biotechnology.

23 (B) Conducting joint agency solicitation
24 and selection of applications for funding of indi-

1 vidual grants, collaborative grants, and inter-
2 disciplinary research centers.

3 (C) Developing instrumentation, equip-
4 ment, and infrastructure for biotechnology, in-
5 cluding to optimize, standardize, scale, and de-
6 liver new products and solutions.

7 (D) Developing standard reference mate-
8 rials and measurements to promote interoper-
9 ability between new component technologies and
10 processes for biotechnology discovery, innova-
11 tion, and production processes.

12 (E) Increasing understanding of the risks
13 and benefits of biotechnology, including how
14 products developed with biotechnology can af-
15 fect or protect the environment.

16 (F) Increasing understanding of the eth-
17 ical, legal, and social implications of bio-
18 technology, including research that contributes
19 to public understanding of biotechnology.

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

22 (A) Providing sustained support for bio-
23 logical data, databases, and related tools to ad-
24 vance human health and the understanding of
25 animals, plants, microbes, and other organisms.

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

8 (C) Developing standards for biological
9 data and databases, including for curation,
10 interoperability, and protection of privacy and
11 security.

12 (D) Developing computational tools, in-
13 cluding artificial intelligence tools, to accelerate
14 research and innovation using biological data
15 and databases.

16 (E) Developing tools that use omics and
17 associated bioinformatic sciences to improve
18 monitoring, management, assessments, and
19 forecasts.

20 (5) PRODUCT COMMERCIALIZATION.—Activities
21 relating to product commercialization as follows:

22 (A) Providing sustained support for private
23 sector translation and commercialization of
24 products that are produced with biotechnology,
25 including biomanufacturing.

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

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

14 (D) Facilitating public-private partnerships
15 in biotechnology research and development that
16 address and reduce barriers to scaling up bio-
17 technology innovations.

18 (E) Supporting a national network of
19 testbeds based on open standards, interfaces,
20 and processes, including by repurposing existing
21 facilities, to enable scale-up of biotechnology re-
22 search.

23 (F) Providing incentives for retooling of in-
24 dustrial sites across the United States to foster
25 a pivot to biotechnology.

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

8 (6) REGULATORY STREAMLINING.—Activities
9 relating to regulatory streamlining as follows:

10 (A) Conducting and coordinating regu-
11 latory streamlining for products that are pro-
12 duced with biotechnology.

13 (B) Easing regulatory burden for types of
14 biotechnology products that have become well-
15 understood by regulators, including products
16 that could have occurred naturally or been de-
17 veloped with conventional means.

18 (C) Establishing clear regulatory pathways
19 for biotechnology products, including through
20 short-term regulatory trials to establish new or
21 update existing regulatory pathways.

22 (D) Ensuring consistent, risk-propor-
23 tionate regulation of biotechnology research and
24 development activities, including for release of
25 products or organisms into the environment.

1 (E) Conducting horizon scanning to iden-
2 tify novel biotechnology products and develop
3 clear regulatory pathways for such products.

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

6 (A) Addressing biosafety, biosecurity, and
7 responsible biology issues associated with
8 emerging biotechnology.

9 (B) Developing an applied management
10 plan to address biological risks of biotechnology
11 research.

12 (C) Creating an adaptable, evidence-based
13 framework to respond to emerging biosecurity
14 challenges that considers and informs updates
15 of existing biosecurity governance policies, guid-
16 ance, and directives and identifies necessary
17 safeguards for new products, processes, and
18 systems of biotechnology.

19 (D) Conducting outreach to industry, insti-
20 tutions of higher education, nonprofit organiza-
21 tions, and government agencies to increase
22 awareness of biosafety and biosecurity implica-
23 tions of biotechnology research.

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

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

3 (B) Ensuring that Congress and Federal
4 departments and agencies have access to nec-
5 essary expertise across national security and
6 emerging biotechnology issues.

7 (C) Supporting Federal biotechnology edu-
8 cation and workforce training programs and ini-
9 tiatives for students and workers.

10 (D) Supporting education and training of
11 undergraduate and graduate students in bio-
12 technology, including biomanufacturing, bio-
13 process engineering, and computational science
14 applied to biotechnology.

15 (E) Connecting researchers, graduate stu-
16 dents, and postdoctoral fellows with entrepre-
17 neurship education and training opportunities,
18 including to award grants, on a competitive
19 basis, that enable institutions to support grad-
20 uate students, and postdoctoral fellows who per-
21 form some of their biotechnology research in an
22 industry setting.

23 (F) Supporting professional development,
24 continuing education, and skills development

1 (such as re-skilling and upskilling) for veterans,
2 industry workers, and technology professionals.

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

13 (H) Supporting curriculum development
14 and research experiences in biotechnology and
15 associated data and information sciences across
16 the Federal workforce, including for the mili-
17 tary education system.

18 (9) BIOLITERACY.—Activities relating to biolite-
19 racy as follows:

20 (A) Providing clear, easy-to-find informa-
21 tion about biotechnology for policymakers,
22 innovators, and the public.

23 (B) Supporting greater evidence-based
24 public discourse about the benefits and risks of
25 biotechnology.

1 (C) Ensuring that public input and out-
2 reach are integrated into Federal biotechnology
3 activities through regular and ongoing public
4 discussions such as workshops, consensus con-
5 ferences, and educational events, as may be ap-
6 propriate.

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

9 (A) Developing an internal international
10 engagement strategy for the respective depart-
11 ment or agency, in cooperation with relevant
12 interagency partners.

13 (B) Strengthening and developing bilateral
14 and multilateral relationships to advance United
15 States priorities in biotechnology abroad.

16 (C) Providing sustained support and co-
17 ordinating interagency activities in international
18 biotechnology outreach and engagement with al-
19 lies and partners.

20 (D) Engaging in coordinated regulatory
21 and commercial diplomacy to better align bio-
22 technology regulations and expand market ac-
23 cess for biotechnology products.

24 (E) Supporting the development of inter-
25 national standards and norms for bio-

1 technology, including to define shared values
2 and interests.

3 (F) Supporting biological data-sharing
4 agreements with partner countries.

5 (G) Supporting biotechnology talent ex-
6 changes with partner countries, including
7 through fellowships, work authorization pro-
8 grams, and other mechanisms.

9 (H) Supporting harmonization of multilat-
10 eral export controls to protect against misuse of
11 biotechnology.

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

