

118TH CONGRESS
1ST SESSION

H. R. 5097

To amend the Food, Agriculture, Conservation, and Trade Act of 1990 to direct the Secretary of Agriculture to establish research centers of excellence for alternative protein innovation, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

AUGUST 1, 2023

Ms. BROWNLEY introduced the following bill; which was referred to the Committee on Agriculture, and in addition to the Committee on Education and the 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 amend the Food, Agriculture, Conservation, and Trade Act of 1990 to direct the Secretary of Agriculture to establish research centers of excellence for alternative protein innovation, 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 “Producing Real Oppor-
5 tunities for Technology and Entrepreneurs Investing in
6 Nutrition Act”.

1 **SEC. 2. FINDINGS.**

2 Congress finds the following:

3 (1) Protein innovation that produces the char-
4 acteristics of animal protein using plants, animal cell
5 cultivation, and fermentation is an essential compo-
6 nent of the bioeconomy.

7 (2) The United States has produced several
8 groundbreaking biotechnological breakthroughs
9 across the alternative protein sector in the last dec-
10 ade.

11 (3) In recent years, multiple countries have dra-
12 matically increased public investments into alter-
13 native protein research and development while gov-
14 ernment spending in the United States is still ex-
15 tremely modest.

16 (4) According to the United States Department
17 of Agriculture, every one dollar of investment into
18 agricultural research results in twenty dollars of eco-
19 nomic productivity.

20 (5) As of 2019, the plant-based food industry
21 supported over 55,000 jobs in the United States,
22 and the alternative protein sector could create as
23 many as 10 million jobs globally by 2050.

24 (6) Diversifying the protein supply of the
25 United States will increase domestic supply chain re-
26 silience, decrease reliance on foreign grain and other

1 commodities, and provide more choices to American
2 consumers.

3 (7) The global demand for meat is predicted to
4 double by 2050, thus increasing the need for addi-
5 tional food sources such as alternative proteins.

6 (8) Widespread adoption of alternative proteins
7 would decrease the risks associated with antibiotic
8 resistance and zoonotic disease.

9 (9) Widespread adoption of alternative proteins
10 would improve global and domestic food security.

11 (10) Widespread adoption of alternative pro-
12 teins would improve the nutritional quality of the
13 United States food system, contributing to improved
14 health outcomes.

15 (11) Widespread adoption of alternative pro-
16 teins would likely help the United States' food sys-
17 tem become more climate-friendly and sustainable.

18 **SEC. 3. RESEARCH CENTERS OF EXCELLENCE FOR ALTER-**
19 **NATIVE PROTEIN INNOVATION.**

20 Section 1673 of the Food, Agriculture, Conservation,
21 and Trade Act of 1990 (7 U.S.C. 5926) is amended by
22 adding at the end the following:

23 “(d) CENTERS OF EXCELLENCE FOR ALTERNATIVE
24 PROTEIN INNOVATION.—

1 “(1) RECOGNITION.—The Secretary shall recog-
2 nize not fewer than 3 centers of excellence, one of
3 which will be led by an 1890 Institution (as defined
4 in section 2 of the Agricultural Research, Extension,
5 and Education Reform Act of 1998 (7 U.S.C.
6 7601)), to focus on the advancement of alternative
7 proteins in the areas described in paragraph (2).

8 “(2) AREAS OF FOCUS.—

9 “(A) ALTERNATIVE PROTEINS RESEARCH
10 AND DEVELOPMENT.—A center of excellence
11 recognized under paragraph (1) may carry out
12 research, development, and education programs
13 that support the quality, production, or cost-ef-
14 fectiveness of foods with the characteristics of
15 animal meat using plants, animal cell cultiva-
16 tion, or fermentation.

17 “(B) STUDENT SUCCESS AND WORKFORCE
18 DEVELOPMENT.—A center of excellence recog-
19 nized under paragraph (1) may engage in ac-
20 tivities to ensure that students have the skills
21 and education needed to work in the alternative
22 proteins industries, including agricultural
23 science, technology, engineering, mathematics,
24 and related fields of study.

1 “(3) AUTHORIZATION OF APPROPRIATIONS.—

2 There is authorized to be appropriated to carry out
3 this subsection \$15,000,000 for each of fiscal years
4 2024 through 2028.

5 “(4) REPORT.—Not later than 1 year after the
6 date of enactment of the Producing Real Opportuni-
7 ties for Technology and Entrepreneurs Investing in
8 Nutrition Act, and every year thereafter, the Sec-
9 etary shall submit to the Committee on Agriculture
10 of the House of Representatives and the Committee
11 on Agriculture, Nutrition, and Forestry of the Sen-
12 ate a report describing—

13 “(A) the resources invested in the centers
14 of excellence recognized under paragraph (1);
15 and

16 “(B) the work being done by such centers
17 of excellence.”.

18 **SEC. 4. AGRICULTURE AND FOOD RESEARCH INITIATIVE.**

19 Section 2(b)(2)(E) of the Competitive, Special, and
20 Facilities Research Grant Act (7 U.S.C. 3157(b)(2)(E))
21 is amended—

22 (1) by redesignating clauses (ii) through (v) as
23 clauses (iii) through (vi), respectively; and

24 (2) by inserting after clause (i) the following
25 new clause:

1 “(ii) characteristics of animal meat
2 using plants, animal cell cultivation, or fer-
3 mentation;”.

4 **SEC. 5. AGRICULTURAL RESEARCH SERVICE.**

5 (a) ESTABLISHMENT OF NATIONAL PROGRAM.—The
6 Secretary of Agriculture, acting through the Adminis-
7 trator of the Agricultural Research Service (referred to in
8 this section as the “Secretary”), shall establish a new na-
9 tional program dedicated to the research of alternative
10 proteins that is focused on developing knowledge and ena-
11 bling commercially-viable technologies related to foods
12 with the characteristics of animal meat using plants, ani-
13 mal cell cultivation, or fermentation.

14 (b) AUTHORIZATION OF APPROPRIATIONS.—There is
15 authorized to be appropriated to carry out the program
16 \$10,000,000 for each of fiscal years 2024 through 2028.

17 **SEC. 6. ALTERNATIVE PROTEIN ADVANCED MANUFAC-
18 TURING AND PRODUCTION GRANT PROGRAM.**

19 (a) IN GENERAL.—Not later than 180 days after the
20 date of enactment of this Act, the Secretary of Agriculture
21 (referred to in this section as the “Secretary”) shall estab-
22 lish a grant program to ensure that the United States has
23 a viable domestic manufacturing and production capability
24 to support and sustain increased global demand for alter-
25 native proteins.

1 (b) ELIGIBLE ENTITIES.—An entity is eligible to re-
2 ceive a grant under subsection (a) if—

- 3 (1) such entity is—
- 4 (A) a nonprofit or for-profit private entity;
- 5 (B) an institution of higher education;
- 6 (C) a National Laboratory;
- 7 (D) a State or local government; or
- 8 (E) a consortium of entities described in
9 subparagraphs (A) through (D); and
- 10 (2) such entity—
- 11 (A) is headquartered in the United States
12 and operates primarily within the United
13 States;
- 14 (B) is at least 51 percent owned and con-
15 trolled by 1 or more individuals who are citizens
16 of the United States; and
- 17 (C) deploys intellectual property and con-
18 tent that is owned by United States individuals.

19 (c) GRANTS.—

- 20 (1) USE OF FUNDS.—An entity that receives a
21 grant under this section shall use funds received
22 through the grant—
- 23 (A) to carry out 1 or more demonstration
24 projects for the advanced manufacturing, pro-
25 duction, or processing of alternative protein;

(2) AMOUNT OF GRANTS.—The amount of a grant awarded under this section shall be not less than \$10,000,000 for an eligible entity carrying out 1 or more projects described in paragraph (1).

14 (d) AUTHORIZATION OF APPROPRIATIONS.—There is
15 authorized to be appropriated to the Secretary to carry
16 out the program \$50,000,000 for each of fiscal years 2024
17 through 2028.

18 SEC. 7. ALTERNATIVE PROTEIN WORKFORCE DEVELOP- 19 MENT GRANT PROGRAM.

20 (a) IN GENERAL.—Not later than 180 days after the
21 date of the enactment of this Act, the Secretary of Agri-
22 culture (referred to in this section as the “Secretary”)
23 shall establish a competitive grant program to support al-
24 ternative protein workforce development.

1 (b) ELIGIBLE ENTITY.—An entity is eligible to re-
2 ceive a grant under this section if the entity is—

3 (1) a governmental entity;
4 (2) a public, private, or cooperative organiza-
5 tion organized on a for-profit or nonprofit basis; or
6 (3) an Indian Tribe (as defined in section 4 of
7 the Indian Self-Determination and Education Assis-
8 tance Act (25 U.S.C. 5304)) on a Federal or State
9 reservation or any other federally recognized Indian
10 Tribe.

11 (c) USE OF FUNDS.—An entity to which a grant is
12 made under this section may use the grant funds to—

13 (1) train new and existing employees on alter-
14 native protein production and processing methods;
15 (2) establish a center for training, technology,
16 and trade that will provide training to employees
17 who process alternative protein;
18 (3) provide higher-education scholarships to
19 students pursuing careers in alternative protein pro-
20 duction and processing, including at community col-
21 leges;

22 (4) conduct regional, community, and local eco-
23 nomic development planning and coordination for
24 the purpose of increasing alternative protein produc-
25 tion and processing;

1 (5) provide technical assistance to gain compli-
2 ance with Federal, State, or local regulations related
3 to alternative protein production and processing; or

4 (6) facilitate business and lending opportunities
5 related to alternative protein production and proc-
6 essing, including identifying relevant information
7 necessary for obtaining—

8 (A) private capital investments;
9 (B) Federal and State loan guarantees;
10 (C) Federal and State direct grants; or
11 (D) other financial support mechanisms
12 from Federal and State entities.

13 (d) AUTHORIZATION OF APPROPRIATIONS.—There is
14 authorized to be appropriated to carry out this section
15 \$25,000,000 for each of fiscal years 2024 through 2028.

16 **SEC. 8. NATIONAL STRATEGY ON ALTERNATIVE PROTEINS.**

17 (a) ESTABLISHMENT OF A NATIONAL STRATEGY ON
18 ALTERNATIVE PROTEINS.—The Secretary of Agriculture
19 (referred to in this section as the “Secretary”) shall—

20 (1) establish a national strategy on alternative
21 proteins in coordination with the Secretaries con-
22 cerned that meets the requirements of subsection
23 (c); and

24 (2) not later than 1 year after the date of en-
25 actment of this Act, finalize such strategy.

1 (b) CONSIDERATIONS.—When developing the na-
2 tional strategy under subsection (a), the Secretaries con-
3 cerned shall consider—

4 (1) the best available science related to prod-
5 ucts with the characteristics of animal meat using
6 plants, animal cell cultivation, and fermentation;

7 (2) the societal benefits of expanding research,
8 development, and production of alternative proteins
9 relating to—

10 (A) personal and public health;

11 (B) climate change and energy;

12 (C) food and agricultural innovation;

13 (D) resilient supply chains; and

14 (E) cross-cutting scientific advancements;

15 (3) global competition and the economic bene-
16 fits of alternative proteins relating to—

17 (A) future economic productivity;

18 (B) job creation in the biotechnology sec-
19 tor; and

20 (C) existing public investments and strate-
21 gies of competitor countries; and

22 (4) existing policies and programs offered by
23 the Federal and State governments that—

- 1 (A) fund open-access research and develop-
2 ment at higher-learning institutions and govern-
3 ment agencies;
4 (B) incentivize private sector research and
5 development;
6 (C) support new and existing alternative
7 protein producers and manufacturers;
8 (D) support farmers in the United States
9 that produce outputs related to alternative pro-
10 teins; and
11 (E) represent a barrier for effective—
12 (i) open-access alternative protein re-
13 search and development;
14 (ii) scale-up of alternative protein pro-
15 duction and manufacturing; and
16 (iii) regulatory oversight.
- 17 (c) CONTENTS.—The national strategy shall—
18 (1) use a whole-of-government approach to en-
19 sure that the United States remains the global lead-
20 er of alternative protein research, development, pro-
21 duction, and workforce development for future gen-
22 erations; and
23 (2) include—

(A) objectives to fulfill the purpose of the national strategy specified in paragraph (1), including interagency coordination;

4 (B) barriers to fulfill such purpose;

5 (C) solutions to the barriers identified in
6 subsection (b)(4)(E); and

(d) SECRETARIES CONCERNED DEFINED.—In this section, the term “Secretaries concerned” means—

11 (1) the Secretary of Defense;

12 (2) the Secretary of Energy;

13 (3) the Secretary of Commerce;

18 (6) the Commissioner of Food and Drugs;

(7) the Director of the Centers for Disease Control and Prevention;

(8) the Administrator of the Environmental Protection Agency; and

1 SEC. 9. RULE OF CONSTRUCTION.

2 Nothing in this Act, or an amendment made by this
3 Act, shall be construed to support the production of in-
4 sects for food or animal feed.

