

116TH CONGRESS
2D SESSION

H. R. 6145

To increase the capacity of research and development programs of the Federal Government that focus on industries of the future, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

MARCH 9, 2020

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

A BILL

To increase the capacity of research and development programs of the Federal Government that focus on industries of the future, 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 “Industries of the Fu-
5 ture Act of 2020”.

6 **SEC. 2. SENSE OF CONGRESS ON INVESTMENT IN RE-**
7 **SEARCH AND DEVELOPMENT.**

8 It is the sense of Congress that—

1 (1) the United States must drive technological
2 breakthroughs through research and development in-
3 vestments across the Federal Government, academia,
4 and industry in order to promote scientific discovery,
5 economic competitiveness, and national security;

6 (2) the United States must identify key re-
7 search infrastructure investments that enable these
8 technological breakthroughs and establish the do-
9 mestic capabilities necessary for the United States
10 to lead in the industries of the future;

11 (3) the United States must encourage opportu-
12 nities for collaboration between the Federal Govern-
13 ment and the private sector so that through such
14 partnerships, all can benefit from each other's in-
15 vestment and expertise, ensuring United States lead-
16 ership in the industries of the future; and

17 (4) in order for the United States to maintain
18 its global economic edge, Federal investment must
19 be made in research and development efforts focused
20 on industries of the future, such as artificial intel-
21 ligence, quantum information science, biotechnology,
22 and next generation wireless networks and infra-
23 structure, advanced manufacturing, and synthetic bi-
24 ology.

1 **SEC. 3. REPORT ON FEDERAL RESEARCH AND DEVELOP-**
2 **MENT FOCUSED ON INDUSTRIES OF THE FU-**
3 **TURE.**

4 (a) IN GENERAL.—Not later than 120 days after the
5 date of the enactment of this Act, the Director of the Of-
6 fice of Science and Technology Policy shall submit to Con-
7 gress a report on research and development investments,
8 infrastructure, and workforce development investments of
9 the Federal Government that enable continued United
10 States leadership in industries of the future.

11 (b) CONTENTS.—The report submitted under sub-
12 section (a) shall include the following:

13 (1) An assessment of the current baseline of in-
14 vestments in civilian research and development in-
15 vestments of the Federal Government in the indus-
16 tries of the future.

17 (2) A plan to double such baseline investments
18 in artificial intelligence and quantum information
19 science by fiscal year 2022.

20 (3) A detailed plan to increase investments de-
21 scribed in paragraph (1) in industries of the future
22 to \$10,000,000,000 per year by fiscal year 2025.

23 (4) A plan to leverage investments described in
24 paragraphs (1), (2), and (3) in industries of the fu-
25 ture to elicit complimentary investments by non-Fed-
26 eral entities to the greatest extent practicable.

1 (5) Proposed legislation to implement such
2 plans.

3 **SEC. 4. INDUSTRIES OF THE FUTURE COORDINATION**
4 **COUNCIL.**

5 (a) ESTABLISHMENT.—

6 (1) IN GENERAL.—The President shall establish
7 or designate a council to advise the Director of the
8 Office of Science and Technology Policy on matters
9 relevant to the Director and the industries of the fu-
10 ture.

11 (2) DESIGNATION.—The council established or
12 designated under paragraph (1) shall be known as
13 the “Industries of the Future Coordination Council”
14 (in this section the “Council”).

15 (b) MEMBERSHIP.—

16 (1) COMPOSITION.—The Council shall be com-
17 posed of members from the Federal Government as
18 follows:

19 (A) One member appointed by the Direc-
20 tor.

21 (B) One member appointed by the Director
22 of the Office of Management and Budget.

23 (C) A chairperson of the Select Committee
24 on Artificial Intelligence of the National Science
25 and Technology Council.

1 (D) A chairperson of the Subcommittee on
2 Advanced Manufacturing of the National
3 Science and Technology Council.

4 (E) A chairperson of the Subcommittee on
5 Quantum Information Science of the National
6 Science and Technology Council.

7 (F) Such other members as the President
8 considers appropriate.

9 (2) CHAIRPERSON.—The member appointed to
10 the Council under paragraph (1)(A) shall serve as
11 the chairperson of the Council.

12 (c) DUTIES.—The duties of the Council are as fol-
13 lows:

14 (1) To provide the Director with advice on ways
15 in which in the Federal Government can ensure the
16 United States continues to lead the world in devel-
17 oping emerging technologies that improve the quality
18 of life of the people of the United States, increase
19 economic competitiveness of the United States, and
20 strengthen the national security of the United
21 States, including identification of the following:

22 (A) Investments required in fundamental
23 research and development, infrastructure, and
24 workforce development of the United States

1 workers who will support the industries of the
2 future.

3 (B) Actions necessary to create and fur-
4 ther develop the workforce that will support the
5 industries of the future.

6 (C) Actions required to leverage the
7 strength of the research and development eco-
8 system of the United States, which includes
9 academia, industry, and nonprofit organiza-
10 tions.

11 (D) Ways that the Federal Government
12 can consider leveraging existing partnerships
13 and creating new partnerships and other multi-
14 sector collaborations to advance the industries
15 of the future.

16 (2) To provide the Director with advice on mat-
17 ters relevant to the report required by section 4.

18 (d) COORDINATION.—The Council shall coordinate
19 with and utilize relevant existing National Science and
20 Technology Council committees to the maximum extent
21 feasible in order to minimize duplication of effort.

22 (e) SUNSET.—The Council shall terminate on the
23 date that is 6 years after the date of the enactment of
24 this Act.

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