

119TH CONGRESS  
1ST SESSION

# S. 1746

To establish the Commission on American Quantum Information Science  
Dominance, and for other purposes.

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IN THE SENATE OF THE UNITED STATES

MAY 13, 2025

Mrs. BLACKBURN (for herself and Mr. LUJÁN) introduced the following bill;  
which was read twice and referred to the Committee on Commerce,  
Science, and Transportation

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## A BILL

To establish the Commission on American Quantum  
Information Science Dominance, 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 “Quantum Leadership  
5 in Emerging Applications and Policy Act of 2025” or the  
6 “Quantum LEAP Act of 2025”.

7 **SEC. 2. COMMISSION ON AMERICAN QUANTUM INFORMA-**  
8 **TION SCIENCE AND TECHNOLOGY DOMI-**  
9 **NANCE.**

10 (a) ESTABLISHMENT.—

1           (1) IN GENERAL.—There is hereby established,  
2           as of the date specified in paragraph (2), an inde-  
3           pendent commission in the legislative branch of the  
4           Federal Government to examine and make rec-  
5           ommendations with respect to emerging quantum in-  
6           formation science as it pertains to current and fu-  
7           ture missions and activities of the United States  
8           Government and the private sector.

9           (2) DATE OF ESTABLISHMENT.—The date of  
10          establishment referred to in paragraph (1) is the  
11          date that is 30 days after the date of the enactment  
12          of this Act.

13          (3) DESIGNATION.—The commission estab-  
14          lished by paragraph (1) shall be known as the  
15          “Commission on American Quantum Information  
16          Science and Technology Dominance” (in this section  
17          referred to as the “Commission”).

18          (b) MEMBERSHIP.—

19               (1) COMPOSITION.—The Commission shall be  
20          composed of 12 members appointed as follows:

21                   (A) Two members appointed by the Chair-  
22                   man of the Committee on Commerce, Science,  
23                   and Transportation of the Senate, 1 of whom is  
24                   a Member of the Senate and 1 of whom is not.

1 (B) Two members appointed by the Rank-  
2 ing Member of the Committee on Commerce,  
3 Science, and Transportation of the Senate, 1 of  
4 whom is a Member of the Senate and 1 of  
5 whom is not.

6 (C) Two members appointed by the Chair-  
7 man of the Committee on Science, Space, and  
8 Technology of the House of Representatives, 1  
9 of whom is a Member of the House of Rep-  
10 resentatives and 1 of whom is not.

11 (D) Two members appointed by the Rank-  
12 ing Member of the Committee on Science,  
13 Space, and Technology of the House of Rep-  
14 resentatives, 1 of whom is a Member of the  
15 House of Representatives and 1 of whom is not.

16 (E) One member appointed by the majority  
17 leader of the Senate.

18 (F) One member appointed by the minority  
19 leader of the Senate.

20 (G) One member appointed by the Speaker  
21 of the House of Representatives.

22 (H) One member appointed by the minor-  
23 ity leader of the House of Representatives.

24 (2) DEADLINE FOR APPOINTMENT.—Members  
25 shall be appointed to the Commission under para-

1 graph (1) not later than 45 days after the Commis-  
2 sion establishment date specified under subsection  
3 (a)(2).

4 (3) EFFECT OF LACK OF APPOINTMENT BY AP-  
5 POINTMENT DATE.—If 1 or more of the appoint-  
6 ments under paragraph (1) is not made by the ap-  
7 pointment date specified in paragraph (2), the au-  
8 thority to make such appointment or appointments  
9 shall expire, and the number of members of the  
10 Commission shall be reduced by the number equal to  
11 the number of appointments so not made.

12 (4) QUALIFICATIONS.—The members of the  
13 Commission who are not members of Congress and  
14 who are appointed under paragraph (1) shall be in-  
15 dividuals from private civilian life who are recog-  
16 nized experts and have relevant professional experi-  
17 ence in matters relating to—

18 (A) diverse modalities and applications of  
19 emerging quantum information science and as-  
20 sociated technologies;

21 (B) use of emerging quantum information  
22 science and associated technologies by national  
23 policy makers and business leaders; or

1 (C) the implementation, funding, or over-  
2 sight of the national and economic security poli-  
3 cies of the United States.

4 (c) CHAIR AND VICE CHAIR.—

5 (1) CHAIR.—The Chairman of the Committee  
6 on the Committee on Commerce, Science, and  
7 Transportation of the Senate and the Chairman of  
8 the Committee on Commerce, Science, and Trans-  
9 portation of the House of Representatives shall  
10 jointly designate 1 member of the Commission to  
11 serve as Chair of the Commission.

12 (2) VICE CHAIR.—The Ranking Member of the  
13 Committee on Commerce, Science, and Transpor-  
14 tation of the Senate and the Ranking Member of the  
15 Committee on Science, Space, and Technology of the  
16 House of Representatives shall jointly designate 1  
17 member of the Commission to serve as Vice Chair of  
18 the Commission.

19 (d) PERIOD OF APPOINTMENT AND VACANCIES.—  
20 Members of the Commission shall be appointed for the life  
21 of the Commission. A vacancy in the Commission shall not  
22 affect its powers and shall be filled in the same manner  
23 as the original appointment was made.

24 (e) REVIEW.—

1           (1) IN GENERAL.—The Commission shall carry  
2           out a review of advances in emerging quantum infor-  
3           mation science and associated technologies. In car-  
4           rying out such review, the Commission shall consider  
5           the methods, means, and investments necessary to  
6           advance and secure the development of quantum in-  
7           formation science and associated technologies by the  
8           United States to comprehensively address the na-  
9           tional and economic security needs of the United  
10          States.

11          (2) COORDINATION.—The Commission shall co-  
12          ordinate with Federal agencies relevant to the Na-  
13          tional Quantum Strategy, including the Department  
14          of Commerce, the Department of Energy, the Na-  
15          tional Institute of Standards and Technology, the  
16          National Quantum Coordination Office within the  
17          Office of Science and Technology Policy, the Depart-  
18          ment of Defense, and the National Science Founda-  
19          tion.

20          (3) SCOPE.—In conducting the review required  
21          by paragraph (1), the Commission shall consider the  
22          following:

23                  (A) The global competitiveness of the  
24                  United States in quantum information science  
25                  and associated technologies, including matters

1 relating to national security, economic security,  
2 defense, domestic supply chain, public-private  
3 partnerships, and investments.

4 (B) Means, methods, and investments for  
5 the United States to maintain and protect a  
6 technological advantage in quantum information  
7 science and associated technologies relating to  
8 national security and defense.

9 (C) Developments and trends in inter-  
10 national cooperation and competitiveness, in-  
11 cluding foreign investments in quantum infor-  
12 mation science and associated technologies that  
13 are scientifically and materially related to na-  
14 tional security, economic security, and defense.

15 (D) Means by which to foster greater em-  
16 phasis and investments in basic and advanced  
17 research to stimulate government, industry,  
18 academic and combined initiatives in quantum  
19 information science and associated technologies.

20 (E) Means by which to foster greater em-  
21 phasis and investments in advanced develop-  
22 ment and test and evaluation of quantum infor-  
23 mation science-enabled capabilities to stimulate  
24 the growth of the United States quantum infor-  
25 mation science commercial industry, while also

1 supporting and improving acquisition and adop-  
2 tion of quantum information science and associ-  
3 ated technologies for national security purposes.

4 (F) Barriers to commercialization and rec-  
5 ommended mechanisms to accelerate technology  
6 transfer, Federal procurement, and industry ac-  
7 cess to Federal testbeds.

8 (G) Workforce and education incentives  
9 and programs to attract, recruit, and retain  
10 leading talent in fields relevant to the develop-  
11 ment and sustainment of quantum information  
12 science and associated technologies.

13 (H) Means to establish international  
14 standards for the use of quantum information  
15 science application.

16 (I) Means to establish data sharing capa-  
17 bilities within and amongst government, indus-  
18 try, and academia to foster collaboration and  
19 accelerate innovation, while maintaining privacy  
20 and security for data as required for national  
21 security, intellectual property, and personal pro-  
22 tection purposes.

23 (J) Consideration of the transformative po-  
24 tential and rapidly-changing developments of  
25 quantum information science and associated

1 technologies and appropriate mechanisms for  
2 managing such technology related to national  
3 security, economic security, and defense.

4 (K) Means by which to advance all quan-  
5 tum information science and associated tech-  
6 nologies and modalities.

7 (L) Comparison of the near-term applica-  
8 tions development programs in the United  
9 States compared to those of other countries.

10 (M) Any other matters the Commission  
11 deems relevant.

12 (f) COMMISSION REPORT AND RECOMMENDA-  
13 TIONS.—

14 (1) FINAL REPORT.—Not later than the date  
15 that is 2 years after the Commission establishment  
16 date specified in subsection (a)(2), the Commission  
17 shall submit to Congress and the President a final  
18 report on the findings of the Commission and such  
19 recommendations as the Commission may have for  
20 administrative or legislative action.

21 (2) INTERIM REPORT.—Not later than the date  
22 that is 1 year after the Commission establishment  
23 date specified in subsection (a)(2), the Commission  
24 shall submit to Congress and the President an in-  
25 terim report on the status of the review being car-

1 ried out pursuant to subsection (e)(1), including a  
2 discussion of any interim recommendations legisla-  
3 tive or administrative action the Commission may  
4 have.

5 (3) FORM.—Each report submitted to Congress  
6 under this subsection shall be submitted in unclassi-  
7 fied form, but may include a classified annex.

8 (g) GOVERNMENT COOPERATION.—

9 (1) COOPERATION.—In carrying out its duties,  
10 the Commission shall receive the full and timely co-  
11 operation of the Secretary of Commerce and the  
12 heads of other Federal departments and agencies in  
13 providing the Commission with analysis, briefings,  
14 and other information necessary for the fulfillment  
15 of its responsibilities.

16 (2) LIAISON.—The Secretary of Commerce  
17 shall designate at least 1 officer or employee of the  
18 Department of Commerce to serve as a liaison offi-  
19 cer between the Department and the Commission.

20 (3) DETAILEES AUTHORIZED.—The Secretary  
21 of Commerce and the heads of other departments  
22 and agencies of the Federal Government may pro-  
23 vide, and the Commission may accept and employ,  
24 personnel detailed from the Department of Com-

1 merce and such other departments and agencies,  
2 without reimbursement.

3 (4) FACILITATION.—

4 (A) INDEPENDENT, NONGOVERNMENT IN-  
5 STITUTE.—Not later than the date that is 45  
6 days after the Commission establishment date  
7 specified in subsection (a)(2), the Secretary of  
8 Commerce may make available to the Commis-  
9 sion the services of an independent, nongovern-  
10 mental institute described in section 501(c)(3)  
11 of the Internal Revenue Code of 1986, and ex-  
12 empt from tax under section 501(a) of such  
13 Code, that has recognized credentials and ex-  
14 pertise in quantum information science and as-  
15 sociated technologies in order to facilitate the  
16 Commission’s discharge of its duties under this  
17 section.

18 (B) FEDERALLY FUNDED RESEARCH AND  
19 DEVELOPMENT CENTER.—On request of the  
20 Commission, the Secretary of Commerce shall  
21 make available the services of a federally fund-  
22 ed research and development center that is cov-  
23 ered by a sponsoring agreement of the Depart-  
24 ment of Commerce in order to enhance the

1 Commission's efforts to discharge its duties  
2 under this section.

3 (5) EXPEDITION OF SECURITY CLEARANCES.—

4 The Office of Senate Security and the Office of  
5 House Security shall ensure the expedited processing  
6 of appropriate security clearances under processes  
7 developed for the clearance of legislative branch em-  
8 ployees for any personnel appointed to the Commis-  
9 sion by their respective offices of the Senate and  
10 House of Representatives and any personnel ap-  
11 pointed by the Executive Director appointed under  
12 subsection (h).

13 (6) SERVICES.—

14 (A) DEPARTMENT OF COMMERCE SERV-  
15 ICES.—The Secretary of Commerce may provide  
16 to the Commission, on a nonreimbursable basis,  
17 such administrative services, funds, staff, facili-  
18 ties, and other support services as are necessary  
19 for the performance of the Commission's duties  
20 under this section.

21 (B) OTHER AGENCIES.—In addition to any  
22 support provided under paragraph (1), the  
23 heads of other Federal departments and agen-  
24 cies may provide to the Commission such serv-  
25 ices, funds, facilities, staff, and other support

1 as the heads of such departments and agencies  
2 determine advisable and as may be authorized  
3 by law.

4 (h) STAFF.—

5 (1) STATUS AS FEDERAL EMPLOYEES.—Not-  
6 withstanding the requirements of section 2105 of  
7 title 5, United States Code, including the required  
8 supervision under subsection (a)(3) of such section,  
9 any member of the Commission who is not a Mem-  
10 ber of Congress shall be considered to be a Federal  
11 employee.

12 (2) EXECUTIVE DIRECTOR.—The Commission  
13 shall appoint and fix the rate of basic pay for an Ex-  
14 ecutive Director in accordance with section 3161(d)  
15 of title 5, United States Code.

16 (3) PAY.—The Executive Director, with the ap-  
17 proval of the Commission, may appoint and fix the  
18 rate of basic pay for additional personnel as staff of  
19 the Commission in accordance with section 3161(d)  
20 of title 5, United States Code.

21 (i) PERSONAL SERVICES.—

22 (1) AUTHORITY TO PROCURE.—The Commis-  
23 sion may—

24 (A) procure the services of experts or con-  
25 sultants (or of organizations of experts or con-

1           sultants) in accordance with the provisions of  
2           section 3109 of title 5, United States Code; and

3           (B) pay in connection with such services  
4           travel expenses of individuals, including trans-  
5           portation and per diem in lieu of subsistence,  
6           while such individuals are traveling from their  
7           homes or places of business to duty stations.

8           (2) MAXIMUM DAILY PAY RATES.—The daily  
9           rate paid an expert or consultant procured pursuant  
10          to paragraph (1) may not exceed the daily rate paid  
11          a person occupying a position at level IV of the Ex-  
12          ecutive Schedule under section 5315 of title 5,  
13          United States Code.

14          (j) AUTHORITY TO ACCEPT GIFTS.—The Commis-  
15          sion may accept, use, and dispose of gifts or donations  
16          of services, goods, and property from non-Federal entities  
17          for the purposes of aiding and facilitating the work of the  
18          Commission. The authority in this subsection does not ex-  
19          tend to gifts of money. Gifts accepted under this authority  
20          shall be documented, and conflicts of interest or the ap-  
21          pearance of conflicts of interest shall be avoided. Subject  
22          to the authority in this section, members of the Commis-  
23          sion shall otherwise comply with rules set forth by the Se-  
24          lect Committee on Ethics of the Senate and the Committee

1 on Ethics of the House of Representatives governing em-  
2 ployees of the Senate and House of Representatives.

3 (k) LEGISLATIVE ADVISORY COMMITTEE.—The  
4 Commission shall operate as a legislative advisory com-  
5 mittee.

6 (l) CONTRACTING AUTHORITY.—The Commission  
7 may acquire administrative supplies and equipment for  
8 Commission use to the extent funds are available.

9 (m) USE OF GOVERNMENT INFORMATION.—The  
10 Commission may secure directly from any department or  
11 agency of the Federal Government such information as the  
12 Commission considers necessary to carry out its duties.  
13 Upon such request of the chair of the Commission, the  
14 head of such department or agency shall furnish such in-  
15 formation to the Commission.

16 (n) POSTAL SERVICES.—The Commission may use  
17 the United States mail in the same manner and under the  
18 same conditions as Federal departments and agencies.

19 (o) SPACE FOR USE OF COMMISSION.—Not later  
20 than 30 days after the establishment date of the Commis-  
21 sion, the Administrator of General Services, in consulta-  
22 tion with the Commission, shall identify and make avail-  
23 able suitable excess space within the Federal space inven-  
24 tory to house the operations of the Commission. If the Ad-  
25 ministrator is not able to make such suitable excess space

1 available within such 30-day period, the Commission may  
2 lease space to the extent the funds are available.

3 (p) REMOVAL OF MEMBERS.—A member may be re-  
4 moved from the Commission for cause by the individual  
5 serving in the position responsible for the original appoint-  
6 ment of such member under subsection (b)(1), provided  
7 that notice has first been provided to such member of the  
8 cause for removal and voted and agreed upon by  $\frac{3}{4}$  of  
9 the members serving. A vacancy created by the removal  
10 of a member under this subsection shall not affect the  
11 powers of the Commission, and shall be filled in the same  
12 manner as the original appointment was made.

13 (q) TERMINATION.—The Commission shall terminate  
14 on the date that is 540 days after the date on which it  
15 submits the final report required by subsection (f).

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