

119<sup>TH</sup> CONGRESS  
1<sup>ST</sup> SESSION

# S. 1331

To require the Secretary of Defense to establish or designate an office in the Department of Defense to serve as the lead for all quantum efforts of the Department, and for other purposes.

---

## IN THE SENATE OF THE UNITED STATES

APRIL 8, 2025

Ms. HASSAN (for herself and Mrs. BLACKBURN) introduced the following bill;  
which was read twice and referred to the Committee on Armed Services

---

## A BILL

To require the Secretary of Defense to establish or designate an office in the Department of Defense to serve as the lead for all quantum efforts of the Department, 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 National Se-  
5        curity Coordination and Competition Act of 2025”.

1 **SEC. 2. NATIONAL SECURITY QUANTUM COORDINATION**  
2 **AND COMPETITION.**

3 (a) OFFICE OF QUANTUM CAPABILITIES AND COM-  
4 PETITION.—

5 (1) ESTABLISHMENT.—Not later than 180 days  
6 after the date of the enactment of this Act, the Sec-  
7 retary of Defense shall establish or designate an of-  
8 fice in the Department of Defense to serve as the  
9 lead for all quantum efforts of the Department relat-  
10 ing to the following:

11 (A) Quantum technology research, includ-  
12 ing quantum sensing, quantum computing, and  
13 quantum communications.

14 (B) Quantum technology development, in-  
15 cluding quantum sensing, quantum computing,  
16 and quantum communications.

17 (C) Quantum technology application, in-  
18 cluding quantum sensing, quantum computing,  
19 and quantum communications.

20 (D) Quantum technology policy, including  
21 quantum sensing, quantum computing, and  
22 quantum communications.

23 (E) Such other quantum related efforts as  
24 the Secretary considers appropriate.

25 (2) DESIGNATION.—The office established or  
26 designated pursuant to paragraph (1) shall be

1 known as the “Department of Defense Office of  
2 Quantum Capabilities and Competition” (in this sec-  
3 tion the “Office”).

4 (3) PRIMARY MISSION.—The primary mission of  
5 the Office shall be coordinating, leading, and direct-  
6 ing quantum technology efforts of the Department  
7 in order—

8 (A) to advance Department research ef-  
9 forts in quantum technology;

10 (B) to develop quantum technology exper-  
11 tise that enables advancements in United States  
12 national security capabilities;

13 (C) to aggressively pursue a national com-  
14 petitive advantage in quantum technology, vis-  
15 à-vis other countries; and

16 (D) to develop quantum technologies that  
17 can be utilized for real-world application by the  
18 Department of Defense or other United States  
19 national security entities.

20 (b) COORDINATION WITH OTHER QUANTUM EF-  
21 FORTS.—

22 (1) IN GENERAL.—The Secretary shall, acting  
23 through the Office, regularly coordinate with the  
24 heads of other Federal departments and agencies

1 that work on quantum science, quantum technology,  
2 or quantum research.

3 (2) QUANTUM COORDINATION OFFICE FOR NA-  
4 TIONAL SECURITY.—

5 (A) IN GENERAL.—In carrying out para-  
6 graph (1), the Secretary shall establish within  
7 the Office a subcomponent to liaise with, share  
8 expertise with, and whenever feasible, coordi-  
9 nate and, if necessary, deconflict efforts with  
10 other relevant U.S. government entities pur-  
11 suing efforts on quantum science, quantum  
12 technology, or quantum research.

13 (B) DESIGNATION.—The subcomponent es-  
14 tablished pursuant to subparagraph (A) shall be  
15 known as the “Quantum Coordination Office  
16 for National Security”.

17 (c) TRIENNIAL REPORTS.—

18 (1) IN GENERAL.—Not later than one year  
19 after the date of the enactment of this Act, and not  
20 less frequently than once every three years there-  
21 after, the Secretary shall submit to the appropriate  
22 committees of Congress a report on national security  
23 quantum capabilities and competition.

1           (2) CONTENTS GENERALLY.—Each report sub-  
2           mitted pursuant to paragraph (1) shall cover the fol-  
3           lowing:

4                   (A) The state of current quantum efforts  
5                   within the Department of Defense, including  
6                   specific sections on quantum sensing, quantum  
7                   computing, and quantum communications.

8                   (B) The state of current quantum efforts  
9                   of adversarial and competitor countries, includ-  
10                  ing specific sections on quantum sensing, quan-  
11                  tum computing, and quantum communications.

12                  (C) The state of current quantum efforts  
13                  of any other countries with advanced capabili-  
14                  ties in quantum technology and quantum  
15                  science, including specific sections on quantum  
16                  sensing, quantum computing, and quantum  
17                  communications.

18                  (D) A comparison of the capabilities of the  
19                  United States and those of adversarial and  
20                  competitor countries, as well as any other coun-  
21                  tries with advanced capabilities in quantum  
22                  technology and quantum science.

23                  (E) An assessment of capabilities of the  
24                  United States compared to those of China, Rus-  
25                  sia, and Iran, combined with an assessment of

1           how such countries (in addition to any other  
2           countries the Secretary considers relevant) may  
3           utilize quantum technology in a conflict against  
4           the United States or allies and partners of the  
5           United States, including via hybrid warfare.

6           (F) A realistic pathway forward, both  
7           short term (3 years) and long term (10 years  
8           and beyond), for the United States to compete  
9           with and outpace other countries in quantum  
10          technology and quantum science in regard to  
11          national security.

12          (3) CONTENTS OF INITIAL REPORT.—In addi-  
13          tion to the matter covered by paragraph (2), the  
14          first report submitted pursuant to paragraph (1)  
15          shall include an annex on quantum communication  
16          efforts that covers the following:

17                 (A) The current state of United States na-  
18                 tional security quantum communications tech-  
19                 nology and capabilities.

20                 (B) A comparison of the national security  
21                 quantum communications technology and capa-  
22                 bilities of the United States compared to that  
23                 of China, Russia, Iran, and such other coun-  
24                 tries as the Secretary considers relevant.

1 (C) An immediate (2 years) and long-term  
2 (10 years and beyond) plan—

3 (i) to close any gaps that may exist  
4 between national security quantum com-  
5 munications technology and capabilities of  
6 the United States and those of China, Rus-  
7 sia, Iran, and such other countries as the  
8 Secretary considers relevant; and

9 (ii) to outpace the quantum commu-  
10 nications technology and capabilities for  
11 China, Russia, Iran, and such other coun-  
12 tries as the Secretary considers relevant.

13 (4) FORM.—Each report submitted pursuant to  
14 paragraph (1) shall be submitted in classified form.

15 (5) APPROPRIATE COMMITTEES OF CONGRESS  
16 DEFINED.—In this subsection, the term “appro-  
17 priate committees of Congress” means—

18 (A) the Committee on Armed Services, the  
19 Select Committee on Intelligence, the Com-  
20 mittee on Foreign Relations, and the Com-  
21 mittee on Homeland Security and Govern-  
22 mental Affairs of the Senate; and

23 (B) the Committee on Armed Services, the  
24 Permanent Select Committee on Intelligence,  
25 the Committee on Foreign Affairs, and the

1           Committee on Homeland Security of the House  
2           of Representatives.

3           (d) PROTECTION OF NATIONAL SECURITY.—The  
4 Secretary shall carry out this section in accordance with  
5 all applicable provisions of law and policies relating to  
6 classified information and national security.

7           (e) RULE OF CONSTRUCTION.—Nothing in this sec-  
8 tion shall be construed to require any action that is not  
9 consistent with a provision of law or policy that was in  
10 effect on the day before the date of the enactment of this  
11 Act.

○