

119TH CONGRESS
1ST 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

known as the “Department of Defense Office of Quantum Capabilities and Competition” (in this section the “Office”).

(3) PRIMARY MISSION.—The primary mission of the Office shall be coordinating, leading, and directing quantum technology efforts of the Department in order—

(A) to advance Department research efforts in quantum technology;

(B) to develop quantum technology expertise that enables advancements in United States national security capabilities;

(C) to aggressively pursue a national competitive advantage in quantum technology, vis-à-vis other countries; and

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

(b) COORDINATION WITH OTHER QUANTUM EFFORTS.—

(1) IN GENERAL.—The Secretary shall, acting through the Office, regularly coordinate with the 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.

(2) CONTENTS GENERALLY.—Each report submitted pursuant to paragraph (1) shall cover the following:

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

(B) The state of current quantum efforts of adversarial and competitor countries, including specific sections on quantum sensing, quantum computing, and quantum communications.

(C) The state of current quantum efforts of any other countries with advanced capabilities in quantum technology and quantum science, including specific sections on quantum sensing, quantum computing, and quantum communications.

(D) A comparison of the capabilities of the United States and those of adversarial and competitor countries, as well as any other countries with advanced capabilities in quantum technology and quantum science.

(E) An assessment of capabilities of the United States compared to those of China, Russia, 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.

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

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

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

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

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

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

(B) the Committee on Armed Services, the
Permanent Select Committee on Intelligence,
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.

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