

119TH CONGRESS
1ST SESSION

H. R. 3220

To amend the National Quantum Initiative Act to establish a public-private partnership for near-term quantum application development and acceleration, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

MAY 6, 2025

Mr. OBERNOLTE (for himself, Ms. STEVENS, Mr. WEBER of Texas, and Mr. HUDSON) introduced the following bill; which was referred to the Committee on Science, Space, and Technology

A BILL

To amend the National Quantum Initiative Act to establish a public-private partnership for near-term quantum application development and acceleration, 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 Sandbox for
5 Near-Term Applications Act of 2025”.

6 **SEC. 2. FINDINGS.**

7 Congress finds as follows:

1 (1) The National Quantum Initiative and its
2 ongoing activities explore and promote Quantum In-
3 formation Science.

4 (2) Continual innovation by the quantum indus-
5 try of the United States is critically important.

6 (3) Quantum and quantum-hybrid applications
7 have the ability to provide innovative solutions for
8 near-term use cases across a variety of public and
9 private sector challenges.

10 (4) Many quantum computers are available via
11 the cloud and through a dedicated near-term quan-
12 tum application acceleration program that is inclu-
13 sive of the wide variety of quantum computing tech-
14 nologies that will break down barriers to access
15 quantum computing hardware systems.

16 (5) Business and consumers of the United
17 States will be able to see benefits of the innovation
18 through a program focusing on near-term use of the
19 technology.

20 (6) Quantum information science is a
21 foundational technology that is transforming the
22 economy of the 21st century.

23 (7) Robust leadership in quantum research and
24 near-term development will have a great impact on
25 the economic security of the United States.

1 (8) Unrivaled excellence in workforce develop-
 2 ment is key in developing next generation leaders in
 3 quantum applications.

4 **SEC. 3. PUBLIC-PRIVATE PARTNERSHIP FOR QUANTUM AP-**
 5 **PLICATION DEVELOPMENT ACCELERATION.**

6 (a) IN GENERAL.—Title IV of the National Quantum
 7 Initiative Act (15 U.S.C. 8851 et seq.) is amended by add-
 8 ing at the end the following:

9 **“SEC. 405. PUBLIC-PRIVATE PARTNERSHIP FOR QUANTUM**
 10 **APPLICATION DEVELOPMENT ACCELERA-**
 11 **TION.**

12 “(a) DEFINITIONS.—In this section:

13 “(1) QUANTUM APPLICATIONS.—The term
 14 ‘quantum applications’ means algorithms and appli-
 15 cations which use quantum mechanics through quan-
 16 tum processing units. These applications include
 17 quantum computing, quantum communication, quan-
 18 tum sensing, and quantum-hybrid applications which
 19 are applications that use both quantum computing
 20 and classical computing hardware systems.

21 “(2) QUANTUM SANDBOX.—The term ‘quantum
 22 sandbox’ means a program—

23 “(A) for innovation and development of ap-
 24 plications using quantum information sciences
 25 with a focus on near-term use cases; and

1 “(B) that can be used to develop and test
2 demonstrations, proofs of concepts, and pilot
3 applications.

4 “(3) NEAR-TERM USE CASE.—The term ‘near-
5 term use case’ means an application that can be de-
6 veloped and deployed in less than 24 months.

7 “(b) ESTABLISHMENT OF QUANTUM SANDBOX RE-
8 QUIRED.—The Secretary of Commerce, in coordination
9 with the Director of the National Institute of Standards
10 and Technology, shall establish a quantum sandbox
11 through the establishment of a public-private partnership
12 focused on quantum computing application development
13 acceleration for quantum, quantum communication, quan-
14 tum sensing, and quantum-hybrid computing near-term
15 use cases.

16 “(c) ENGAGEMENT.—As part of the Program and in
17 carrying out subsection (b), the Secretary shall, acting
18 through the Director of the National Institute of Stand-
19 ards and Technology, engage with the Quantum Economic
20 Development Consortium, the National Laboratories (as
21 defined in section 2 of the Energy Policy Act of 2005 (42
22 U.S.C. 15801)), federally funded research and develop-
23 ment centers, and other members of the United States
24 quantum computing and quantum information eco-
25 system.”.

1 (b) CLERICAL AMENDMENT.—The table of contents
2 of the National Quantum Initiative Act (15 U.S.C. 8801
3 et seq.) is amended by adding after the item relating to
4 section 404 the following new item:

“Sec. 405. Public-private partnership for quantum application development ac-
celeration.”.

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