

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.

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## 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

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## 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.

(8) Unrivaled excellence in workforce development is key in developing next generation leaders in 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:

12        "(a) DEFINITIONS.—In this section:

13                 “(1) QUANTUM APPLICATIONS.—The term  
14         ‘quantum applications’ means algorithms and applica-  
15         tions 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.

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

“(A) for innovation and development of applications using quantum information sciences 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 acceleration.”.

