

AMENDMENT TO H.R. 8462
OFFERED BY MR. OBERNOLTE OF CALIFORNIA

Insert after section 22 the following (and redesignate subsequent sections accordingly):

1 **SEC. 23. PUBLIC-PRIVATE PARTNERSHIP FOR QUANTUM**
2 **APPLICATION DEVELOPMENT ACCELERA-**
3 **TION.**

4 Title IV of the National Quantum Initiative Act (15
5 U.S.C. 8851 et seq.), as amended by sections 21 and 22,
6 is further amended by adding at the end the following new
7 section:

8 **“SEC. 407. PUBLIC-PRIVATE PARTNERSHIP FOR QUANTUM**
9 **APPLICATION DEVELOPMENT ACCELERA-**
10 **TION.**

11 “(a) **DEFINITIONS.**—In this section:

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

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

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

6 “(B) that can be used to develop and test
7 demonstrations, proofs of concepts, and pilot
8 applications.

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

12 “(b) QUANTUM SANDBOX.—The Secretary of Com-
13 merce, in coordination with the Director of the National
14 Institute of Standards and Technology, may establish a
15 quantum sandbox through the establishment of a public-
16 private partnership focused on quantum computing appli-
17 cation development acceleration for quantum, quantum
18 communication, quantum sensing, and quantum-hybrid
19 computing near-term use cases.

20 “(c) ENGAGEMENT.—As part of the Program and in
21 carrying out subsection (b), the Secretary may, acting
22 through the Director of the National Institute of Stand-
23 ards and Technology, engage with the Quantum Economic
24 Development Consortium, the National Laboratories (as
25 defined in section 2 of the Energy Policy Act of 2005 (42

1 U.S.C. 15801)), federally funded research and develop-
2 ment centers, and other members of the United States
3 quantum computing and quantum information eco-
4 system.”.

In section 26(5) (relating to the table of contents of the National Quantum Initiative Act (15 U.S.C. 8801 et seq.), make appropriate conforming changes relating to the insertion of the item for section 407 of such Act.

