

116TH CONGRESS  
2D SESSION

# H. R. 6919

To require the Secretary of Commerce to conduct a study on quantum computing, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

MAY 19, 2020

Mr. GRIFFITH introduced the following bill; which was referred to the Committee on Energy and Commerce, and in addition to the Committees on Science, Space, and Technology, and Foreign Affairs, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

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## A BILL

To require the Secretary of Commerce to conduct a study on quantum computing, 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 “Advancing Quantum  
5 Computing Act”.

6 **SEC. 2. QUANTUM COMPUTING STUDY.**

7 (a) IN GENERAL.—

1           (1) STUDY REQUIRED.—Not later than 2 years  
2           after the date of the enactment of this Act, the Sec-  
3           retary of Commerce, in coordination with the head  
4           of any other appropriate Federal agency, shall con-  
5           duct a study on the impact of quantum computing  
6           on United States businesses conducting interstate  
7           commerce.

8           (2) REQUIREMENTS FOR STUDY.—In con-  
9           ducting the study, the Secretary shall do the fol-  
10          lowing:

11                 (A) Conduct a survey of quantum com-  
12                 puting through outreach to participating enti-  
13                 ties to—

14                         (i) establish a list of the industry sec-  
15                         tors that develop and use quantum com-  
16                         puting;

17                         (ii) establish a list of public-private  
18                         partnerships focused on promoting the  
19                         adoption, and use of quantum computing;

20                         (iii) provide a description of the ways  
21                         such industry sectors develop, use, or pro-  
22                         mote the use of quantum computing; and

23                         (iv) provide a description of some of  
24                         the advantages or disadvantages quantum

1 computing may present for United States  
2 businesses.

3 (B) Conduct a survey of Federal activity  
4 related to quantum computing to—

5 (i) establish a comprehensive list of  
6 Federal agencies asserting jurisdiction over  
7 entities and industry sectors identified  
8 under subparagraph (A)(i);

9 (ii) identify all interagency activities  
10 related to quantum computing;

11 (iii) develop a brief description of the  
12 jurisdiction and expertise of the Federal  
13 agencies as it relates to quantum com-  
14 puting; and

15 (iv) identify each Federal rule, regula-  
16 tion, guideline, policy, and other Federal  
17 activity implemented by each Federal agen-  
18 cy.

19 (C) Conduct an international survey of  
20 other countries to establish a compendium at  
21 least 10 and not more than 15 countries con-  
22 sisting of each country's national strategy on  
23 quantum computing to determine where the  
24 United States ranks with respect to the adop-  
25 tion of quantum computing.

1 (D) Conduct a survey of the marketplace  
2 and supply chain of quantum computing to—

3 (i) assess the severity of risks posed  
4 to such marketplace and supply chain;

5 (ii) review the ability of foreign gov-  
6 ernments or third parties to exploit such  
7 supply chain in a manner that raises risks  
8 to the economic and national security of  
9 the United States; and

10 (iii) identify emerging risks and long-  
11 term trends in such marketplace and sup-  
12 ply chain.

13 (b) REPORT TO CONGRESS.—Not later than 6  
14 months after the completion of the study required pursu-  
15 ant to subsection (a), the Secretary, in coordination with  
16 the head of any other appropriate Federal agency, shall  
17 submit to the Committee on Energy and Commerce of the  
18 House of Representatives and the Committee on Com-  
19 merce, Science, and Transportation of the Senate a report  
20 that contains—

21 (1) the results of the study conducted under  
22 subsection (a); and

23 (2) recommendations to—

24 (A) address any duplicative Federal rule,  
25 regulation, guideline, policy, and other Federal

1 activity acting as a barrier to the adoption of  
2 quantum computing;

3 (B) develop and implement a comprehen-  
4 sive plan to promote the growth of the adoption  
5 of quantum computing;

6 (C) develop policies that States can adopt  
7 to encourage the growth of quantum computing;

8 (D) develop a national strategy to advance  
9 the position in the world of business sectors in  
10 the United States on the adoption of quantum  
11 computing;

12 (E) develop strategies to mitigate current  
13 and emerging risks to the marketplace and sup-  
14 ply chain of quantum computing; and

15 (F) develop legislation to accomplish such  
16 recommendations.

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