

119TH CONGRESS  
1ST SESSION

# H. R. 3259

To amend the National Quantum Initiative Act and the Cyber Security Research and Development Act to advance the rapid deployment of post quantum cybersecurity standards across the United States economy, support United States cryptography research, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

MAY 7, 2025

Ms. STEVENS (for herself and Ms. TENNEY) 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 and the Cyber Security Research and Development Act to advance the rapid deployment of post quantum cybersecurity standards across the United States economy, support United States cryptography research, 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 “Post Quantum Cyber-  
5 security Standards Act”.

1 **SEC. 2. NIST CRYPTOGRAPHY PROGRAMS AND NSF CRYPT-**  
 2 **TOGRAPHY RESEARCH.**

3 (a) NATIONAL INSTITUTE OF STANDARDS AND  
 4 TECHNOLOGY CRYPTOGRAPHY PROGRAMS.—The Na-  
 5 tional Quantum Initiative Act is amended—

6 (1) in section 2 (15 U.S.C. 8801)—

7 (A) by redesignating paragraphs (4), (5),  
 8 (6), (7), the first paragraph (8) (relating to the  
 9 definition of “Subcommittee on Economic and  
 10 Security Implications”), and the second para-  
 11 graph (8) (relating to the definition of “Sub-  
 12 committee on Quantum Information Science”) as paragraphs (5), (7), (8), (9), (11), and (12),  
 13 respectively;  
 14

15 (B) by inserting after paragraph (3) the  
 16 following new paragraph:

17 “(4) CRITICAL INFRASTRUCTURE.—The term  
 18 ‘critical infrastructure’ has the meaning given such  
 19 term in section 1016(e) of Public Law 107–56 (42  
 20 U.S.C. 5195c(e))”;

21 (C) by inserting after paragraph (5), as so  
 22 redesignated, the following new paragraph:

23 “(6) POST-QUANTUM CRYPTOGRAPHY.—The  
 24 term ‘post-quantum cryptography’ means those cryp-  
 25 tographic algorithms or methods that are assessed

1 not to be specifically vulnerable to attack by either  
2 a quantum computer or classical computer.”; and

3 (D) by inserting after paragraph (9), as so  
4 redesignated, the following new paragraph:

5 “(10) SECTOR RISK MANAGEMENT AGENCY.—  
6 The term ‘sector risk management agency’ has the  
7 meaning given such term in section 2200 of the  
8 Homeland Security Act of 2002 (6 U.S.C. 650).”;  
9 and

10 (2) in section 201 (15 U.S.C. 8831), by—

11 (A) redesignating subsection (c) as sub-  
12 section (d); and

13 (B) inserting after subsection (b) the fol-  
14 lowing new subsection:

15 “(c) POST QUANTUM CRYPTOGRAPHY DEPLOY-  
16 MENT.—

17 “(1) IN GENERAL.—The Director of the Na-  
18 tional Institute of Standards and Technology, in  
19 consultation with the Secretary of Homeland Secu-  
20 rity and the heads of sector risk management agen-  
21 cies, as appropriate, shall promote the voluntary  
22 adoption and deployment of post-quantum cryptog-  
23 raphy standards, including by—

24 “(A) disseminating and making publicly  
25 available guidance and resources to help organi-

1 zations adopt and deploy post-quantum cryptog-  
2 raphy standards;

3 “(B) providing technical assistance, as  
4 practicable, to entities that are high risk of  
5 quantum cryptoanalytic attacks, such as enti-  
6 ties determined to be critical infrastructure or  
7 digital infrastructure providers; and

8 “(C) conducting such other activities as  
9 determined necessary by the Director to pro-  
10 mote the adoption and deployment of post-  
11 quantum cryptography standards across the  
12 United States.

13 “(2) GRANT PROGRAM.—

14 “(A) IN GENERAL.—Subject to the avail-  
15 ability of appropriations and after the date on  
16 which the Director of National Institute of  
17 Standards and Technology has issued post-  
18 quantum cryptography standards under para-  
19 graph (1), the Director may establish a pro-  
20 gram to identify and provide technical assist-  
21 ance through the award of grants to entities  
22 that are at high risk of quantum cryptoanalytic  
23 attacks, including by granting funds, in adopt-  
24 ing such post-quantum cryptographic standards

1           and           remediating           quantum-related  
2           vulnerabilities.

3           “(B) USE OF FUNDS.—Grants awarded to  
4           entities under this subsection may be used to  
5           cover reasonable costs, up to a specified amount  
6           established by the Director of the National In-  
7           stitute of Standards and Technology, of activi-  
8           ties to adopt post-quantum cryptographic  
9           standards and remediate quantum-related  
10          vulnerabilities.

11          “(C) GUIDANCE.—The Director of the Na-  
12          tional Institute of Standards and Technology  
13          may develop, and periodically update, guidance,  
14          including eligibility, application disclosure re-  
15          quirements, grant amount and duration, and  
16          any additional requirements regarding the  
17          award of grants under this paragraph.

18          “(D) CONSULTATION.—If the program de-  
19          scribed in this paragraph is established, the Di-  
20          rector of the National Institute of Standards  
21          and Technology shall consult with the Director  
22          of the Cybersecurity and Infrastructure Secu-  
23          rity Agency of the Department of Homeland  
24          Security, the heads of other Sector Specific  
25          Agencies and risk management agencies, and

1           appropriate representatives of private sector en-  
2           tities, including nonprofit organizations, to  
3           share information regarding the program and  
4           guidance developed under subparagraph (C).”.

5           (b) NATIONAL SCIENCE FOUNDATION CRYPTOGRAPHY RESEARCH.—Subsection (a)(1)(A) of section 4 of  
6           the Cyber Security Research and Development Act (15  
7           U.S.C. 7403) is amended by inserting “, including post-  
8           quantum cryptography” before the semicolon.

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