

118TH CONGRESS
1ST SESSION

H. R. 5950

To amend the National Quantum Initiative Act to upgrade and improve access to quantum research resources, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

OCTOBER 12, 2023

Ms. SALINAS (for herself and Mr. BAIRD) introduced the following bill

OCTOBER 25, 2023

Referred to the Committee on Science, Space, and Technology

A BILL

To amend the National Quantum Initiative Act to upgrade and improve access to quantum research resources, 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 Instrumenta-
5 tion for Science and Engineering Act”.

6 **SEC. 2. UPGRADING AND IMPROVING ACCESS TO QUANTUM**
7 **RESEARCH RESOURCES.**

8 (a) IN GENERAL.—Title III of the National Quantum
9 Initiative Act (15 U.S.C. 8841 et seq.) is amended—

1 (1) in subsection (b)(1) of section 301—

2 (A) subparagraph (A), by striking “and”
3 after the semicolon;

4 (B) in subparagraph (B), by striking the
5 period and inserting “; and”; and

6 (C) by adding at the end the following new
7 subparagraph:

8 “(C) enhance research facilities and access
9 to research resources to accelerate quantum in-
10 formation science, technology, and engineering
11 research.”; and

12 (2) by adding at the end the following new sec-
13 tion:

14 **“SEC. 303. UPGRADING AND IMPROVING ACCESS TO QUAN-**
15 **TUM RESEARCH RESOURCES.**

16 “(a) IN GENERAL.—In carrying out the activities de-
17 scribed in sections 301 and 302, the Director of the Na-
18 tional Science Foundation, in consultation with the heads
19 of other Federal departments and agencies, as appro-
20 priate, shall award grants to institutions of higher edu-
21 cation or eligible nonprofit organizations (or consortia
22 thereof) to upgrade research facilities and improve access
23 to research resources, such as equipment and instrumen-
24 tation, that is needed for research and development in

1 quantum information science, technology, and engineer-
2 ing.

3 “(b) PURPOSE.—Grants under subsection (a) shall be
4 used to facilitate quantum information science, tech-
5 nology, and engineering research and development, includ-
6 ing by carrying out the following:

7 “(1) Upgrading or adding research resources to
8 accelerate the development of quantum technologies,
9 including capabilities focused on addressing the
10 roadblocks to implementation, and meeting the ma-
11 terials, advanced materials development, and device
12 needs of the scientific community and the quantum
13 supply chain.

14 “(2) Enhancing access to equipment and in-
15 strumentation, including at partnering institutions,
16 by facilitating information sharing, coordination,
17 scheduling, education, and training, including activi-
18 ties that provide meaningful hands-on learning expe-
19 riences for students, including at community and
20 technical colleges.

21 “(3) Enabling professional staff to support the
22 operation and improvement of research resources
23 used for quantum information science, technology,
24 and engineering research and training.

1 “(c) REQUIREMENTS.—An institution of higher edu-
2 cation or an eligible nonprofit organization (or a consor-
3 tium thereof) and industry partners seeking funding under
4 this section shall submit an application to the Director of
5 the National Science Foundation at such time, in such
6 manner, and containing such information as the Director
7 may require.”.

8 (b) CLERICAL AMENDMENT.—The table of contents
9 in section 1(b) of the National Quantum Initiative Act is
10 amended by inserting after the item relating to section
11 302 the following new item:

“Sec. 303. Upgrading and improving access to quantum research resources.”.

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