

for the storage, transmission, manipulation, computing, or measurement of information.

(7) Quantum network infrastructure

The term “quantum network infrastructure” means any facility, expertise, or capability that is necessary to enable the development and deployment of scalable and diverse quantum network technologies.

(8)¹ Subcommittee on Economic and Security Implications

The term “Subcommittee on Economic and Security Implications” means the Subcommittee on the Economic and Security Implications of Quantum Information Science established under section 8814a(a) of this title.

(8)¹ Subcommittee on Quantum Information Science

The term “Subcommittee on Quantum Information Science” means the Subcommittee on Quantum Information Science of the National Science and Technology Council established under section 8813(a) of this title.

(Pub. L. 115–368, § 2, Dec. 21, 2018, 132 Stat. 5092; Pub. L. 117–81, div. F, title LXVI, § 6606(c)(1), Dec. 27, 2021, 135 Stat. 2443; Pub. L. 117–167, div. B, title I, § 10104(b)(1), Aug. 9, 2022, 136 Stat. 1437.)

Editorial Notes

AMENDMENTS

2022—Pars. (7), (8). Pub. L. 117–167 added par. (7) and redesignated former par. (7) relating to Subcommittee on Economic and Security Implications as (8).

2021—Pars. (7), (8). Pub. L. 117–81 added pars. (7) and (8) and struck out former par. (7) which defined “Subcommittee”.

Statutory Notes and Related Subsidiaries

SHORT TITLE

Pub. L. 115–368, § 1(a), Dec. 21, 2018, 132 Stat. 5092, provided that: “This Act [enacting this chapter] may be cited as the ‘National Quantum Initiative Act’.”

§ 8802. Purposes

The purpose of this chapter is to ensure the continued leadership of the United States in quantum information science and its technology applications by—

(1) supporting research, development, demonstration, and application of quantum information science and technology—

(A) to expand the number of researchers, educators, and students with training in quantum information science and technology to develop a workforce pipeline;

(B) to promote the development and inclusion of multidisciplinary curriculum and research opportunities for quantum information science at the undergraduate, graduate, and postdoctoral level;

(C) to address basic research knowledge gaps, including computational research gaps;

(D) to promote the further development of facilities and centers available for quantum

information science and technology research, testing and education; and

(E) to stimulate research on and promote more rapid development of quantum-based technologies;

(2) improving the interagency planning and coordination of Federal research and development of quantum information science and technology;

(3) maximizing the effectiveness of the Federal Government’s quantum information science and technology research, development, and demonstration programs;

(4) promoting collaboration among the Federal Government, Federal laboratories, industry, and universities; and

(5) promoting the development of international standards for quantum information science and technology security—

(A) to facilitate technology innovation and private sector commercialization; and

(B) to meet economic and national security goals.

(Pub. L. 115–368, § 3, Dec. 21, 2018, 132 Stat. 5093.)

SUBCHAPTER I—NATIONAL QUANTUM INITIATIVE

§ 8811. National Quantum Initiative Program

(a) In general

The President shall implement a National Quantum Initiative Program.

(b) Requirements

In carrying out the Program, the President, acting through Federal agencies, councils, working groups, subcommittees, and the Coordination Office, as the President considers appropriate, shall—

(1) establish the goals, priorities, and metrics for a 10-year plan to accelerate development of quantum information science and technology applications in the United States;

(2) invest in fundamental Federal quantum information science and technology research, development, demonstration, and other activities to achieve the goals established under paragraph (1);

(3) invest in activities to develop a quantum information science and technology workforce pipeline;

(4) provide for interagency planning and coordination of Federal quantum information science and technology research, development, demonstration, standards engagement, and other activities under the Program;

(5) partner with industry and universities to leverage knowledge and resources; and

(6) leverage existing Federal investments efficiently to advance Program goals and priorities established under paragraph (1).

(Pub. L. 115–368, title I, § 101, Dec. 21, 2018, 132 Stat. 5094.)

TERMINATION OF SECTION

For termination of section, see section 8815 of this title.

¹ So in original. Two pars. (8) have been enacted.