

(4) Institution of higher education

The term “institution of higher education” has the meaning given the term in section 1001(a) of title 20.

(5) Program

The term “Program” means the National Quantum Initiative Program implemented under section 8811(a) of this title.

(6) Quantum information science

The term “quantum information science” means the use of the laws of quantum physics for the storage, transmission, manipulation, computing, or measurement of information.

(7) Subcommittee

The term “Subcommittee” 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.)

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.

§ 8812. National Quantum Coordination Office**(a) Establishment****(1) In general**

The President shall establish a National Quantum Coordination Office.

(2) Administration

The Coordination Office shall have—

(A) a Director appointed by the Director of the Office of Science and Technology Policy, in consultation with the Secretary of Commerce, the Director of the National Science Foundation, and the Secretary of Energy; and

(B) staff comprised of employees detailed from the Federal departments and agencies described in section 8813(b) of this title

(b) Responsibilities

The Coordination Office shall—

(1) provide technical and administrative support to—

(A) the Subcommittee; and