

Sec.

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§ 8801. Definitions

In this chapter:

(1) Advisory Committee

The term “Advisory Committee” means the National Quantum Initiative Advisory Committee established under section 8814(a) of this title.

(2) Appropriate committees of Congress

The term “appropriate committees of Congress” means—

(A) the Committee on Commerce, Science, and Transportation of the Senate;

(B) the Committee on Energy and Natural Resources of the Senate; and

(C) the Committee on Science, Space, and Technology of the House of Representatives.

(3) Coordination Office

The term “Coordination Office” means the National Quantum Coordination Office established under section 8812(a) of this title.

(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 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) 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.)

Editorial Notes

AMENDMENTS

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.)