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 on Quantum Information Science;

(B) the Advisory Committee; and

(C) the Subcommittee on Economic and Security Implications;

(2) oversee interagency coordination of the Program, including by encouraging and supporting joint agency solicitation and selection of applications for funding of activities under the Program;

(3) serve as the point of contact on Federal civilian quantum information science and technology activities for Federal departments and agencies, industry, universities[1] professional societies, State governments, and such other persons as the Coordination Office considers appropriate to exchange technical and programmatic information;

(4) ensure coordination among the collaborative ventures or consortia established under section 8831(a) of this title, Multidisciplinary Centers for Quantum Research and Education established under section 8842(a) of this title, and the National Quantum Information Science Research Centers established under section 8852(a) of this title;

(5) conduct public outreach, including the dissemination of findings and recommendations of the Advisory Committee, as appropriate;

(6) promote access to and early application of the technologies, innovations, and expertise derived from Program activities to agency missions and systems across the Federal Government, and to industry, including startup companies; and

(7) promote access, through appropriate Federal Government agencies, and an open and competitive merit-reviewed process, to existing quantum computing and communication systems developed by industry, universities, and Federal laboratories to the general user community in pursuit of discovery of the new applications of such systems.

(c) Funding

Funds necessary to carry out the activities of the Coordination Office shall be made available

[1] So in original. Probably should be followed by a comma.

each fiscal year by the Federal departments and agencies described in section 8813(b) of this title, as determined by the Director of the Office of Science and Technology Policy.

(Pub. L. 115–368, title I, § 102, Dec. 21, 2018, 132 Stat. 5094; Pub. L. 117–81, div. F, title LXVI, § 6606(c)(2), Dec. 27, 2021, 135 Stat. 2444.)

TERMINATION OF SECTION

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

Editorial Notes

AMENDMENTS

2021—Subsec. (b)(1). Pub. L. 117–81 substituted ''on Quantum Information Science;'' for ''; and'' in subpar. (A), inserted ''and'' after semicolon in subpar. (B), and added subpar. (C).

§ 8813. Subcommittee on Quantum Information Science

(a) Establishment

The President shall establish, through the National Science and Technology Council, the Subcommittee on Quantum Information Science.

(b) Membership

The Subcommittee shall include a representative of—

(1) the National Institute of Standards and Technology;

(2) the National Science Foundation;

(3) the Department of Energy;

(4) the National Aeronautics and Space Administration;

(5) the Department of Defense;

(6) the Office of the Director of National Intelligence;

(7) the Office of Management and Budget;

(8) the Office of Science and Technology Policy; and

(9) such other Federal department or agency as the President considers appropriate.

(c) Chairpersons

The Subcommittee shall be jointly chaired by the Director of the National Institute of Standards and Technology, the Director of the National Science Foundation, and the Secretary of Energy.

(d) Responsibilities

The Subcommittee shall—

(1) coordinate the quantum information science and technology research, information sharing about international standards development and use, and education activities and programs of the Federal agencies;

(2) establish goals and priorities of the Program, based on identified knowledge and workforce gaps and other national needs;

(3) assess and recommend Federal infrastructure needs to support the Program;

(4) assess the status, development, and diversity of the United States quantum information science workforce;

(5) assess the global outlook for quantum information science research and development efforts;

(6) evaluate opportunities for international cooperation with strategic allies on research and development in quantum information science and technology; and

(7) propose a coordinated interagency budget for the Program to the Office of Management and Budget to ensure the maintenance of a balanced quantum information science research portfolio and an appropriate level of research effort.

(e) Strategic plans

In order to guide the activities of the Program and meet the goals, priorities, and anticipated outcomes of the Federal departments and agencies described in subsection (b), the Subcommittee shall—

(1) not later than 1 year after December 21, 2018, develop a 5-year strategic plan;

(2) not later than 6 years after December 21, 2018, develop a subsequent 5-year strategic plan; and

(3) periodically update each plan, as necessary.

(f) Submittal to Congress

The chairpersons of the Subcommittee shall submit to the President, the Advisory Committee, and the appropriate committees of Congress each strategic plan developed under subsection (e) and any updates thereto.

(g) Annual program budget report

(1) In general

Each year, concurrent with the annual budget request submitted by the President to Congress under section 1105 of title 31, the chairpersons of the Subcommittee shall submit to the appropriate committees of Congress and such other committees of Congress as the chairpersons deem appropriate a report on the budget for the Program.

(2) Contents

Each report submitted under paragraph (1) shall include the following:

(A) The budget of the Program for the current fiscal year, for each Federal department and agency described in subsection (b).

(B) The budget proposed for the Program for the next fiscal year, for each Federal department and agency described in subsection (b).

(C) An analysis of the progress made toward achieving the goals and priorities established under subsection (d)(2).

(h) Report on quantum networking and communications

(1) In general

Not later than January 1, 2026, the Quantum Networking Working Group within the Subcommittee on Quantum Information Science of the National Science and Technology Council, in coordination with the Subcommittee on the Economic and Security Implications of Quantum Information Science, shall submit to the appropriate committees of Congress a report detailing a plan for the advancement of quantum networking and communications technology in the United States, building on the report entitled *A Strategic Vision for America's Quantum Networks and A Coordinated Approach for Quantum Networking Research*.