

made by subsection (a) [enacting this section and amending section 8815 of this title] shall take effect as if included in the enactment of the National Quantum Initiative Act (15 U.S.C. 8801 et seq.).”

§ 8815. Sunset

(a) In general

Except as provided in subsection (b), the authority to carry out sections 8811, 8812, 8813, 8814, and 8814a of this title shall terminate on the date that is 11 years after December 21, 2018.

(b) Extension

The President may continue the activities under such sections if the President determines that such activities are necessary to meet national economic or national security needs.

(Pub. L. 115-368, title I, §106, formerly §105, Dec. 21, 2018, 132 Stat. 5097; renumbered §106 and amended Pub. L. 117-81, div. F, title LXVI, §6606(a)(1), (b)(1), Dec. 27, 2021, 135 Stat. 2442, 2443.)

Editorial Notes

AMENDMENTS

2021—Pub. L. 117-81, §6606(b)(1), substituted “8813, 8814, and 8814a” for “8813, and 8814”.

Statutory Notes and Related Subsidiaries

EFFECTIVE DATE OF 2021 AMENDMENT

Amendment by section 6606(a) of Pub. L. 117-81 effective as if included in the enactment of the National Quantum Initiative Act, see section 6606(b)(2) of Pub. L. 117-81, set out as an Effective Date note under section 8814a of this title.

SUBCHAPTER II—NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY QUANTUM ACTIVITIES

§ 8831. National Institute of Standards and Technology activities and quantum consortium

(a) National Institute of Standards and Technology activities

As part of the Program, the Director of the National Institute of Standards and Technology—

(1) shall continue to support and expand basic and applied quantum information science and technology research and development of measurement and standards infrastructure necessary to advance commercial development of quantum applications;

(2) shall use the existing programs of the National Institute of Standards and Technology, in collaboration with other Federal departments and agencies, as appropriate, to train scientists in quantum information science and technology to increase participation in the quantum fields;

(3) shall establish or expand collaborative ventures or consortia with other public or private sector entities, including industry, universities, and Federal laboratories for the purpose of advancing the field of quantum information science and engineering; and

(4) may enter into and perform such contracts, including cooperative research and development arrangements and grants and coop-

erative agreements or other transactions, as may be necessary in the conduct of the work of the National Institute of Standards and Technology and on such terms as the Director considers appropriate, in furtherance of the purposes of this chapter.

(b) Quantum consortium

(1) In general

Not later than 1 year after December 21, 2018, the Director of the National Institute of Standards and Technology shall convene a consortium of stakeholders to identify the future measurement, standards, cybersecurity, and other appropriate needs for supporting the development of a robust quantum information science and technology industry in the United States.

(2) Goals

The goals of the consortium shall be—

(A) to assess the current research on the needs identified in paragraph (1);

(B) to identify any gaps in the research necessary to meet the needs identified in paragraph (1); and

(C) to provide recommendations on how the National Institute of Standards and Technology and the Program can address the gaps in the necessary research identified in subparagraph (B).

(3) Report to Congress

Not later than 2 years after December 21, 2018, the Director of the National Institute of Standards and Technology shall submit to the Committee on Commerce, Science, and Transportation of the Senate and the Committee on Science, Space, and Technology of the House of Representatives a report summarizing the findings of the consortium.

(c) Funding

The Director of the National Institute of Standards and Technology shall allocate up to \$80,000,000 to carry out the activities under this section for each of fiscal years 2019 through 2023, subject to the availability of appropriations. Amounts made available to carry out this section shall be derived from amounts appropriated or otherwise made available to the National Institute of Standards and Technology.

(Pub. L. 115-368, title II, §201, Dec. 21, 2018, 132 Stat. 5098.)

SUBCHAPTER III—NATIONAL SCIENCE FOUNDATION QUANTUM ACTIVITIES

§ 8841. Quantum information science research and education program

(a) In general

The Director of the National Science Foundation shall carry out a basic research and education program on quantum information science and engineering, including the competitive award of grants to institutions of higher education or eligible nonprofit organizations (or consortia thereof).

(b) Program components

(1) In general

In carrying out the program under subsection (a), the Director of the National