

this section, see section 6002 of Pub. L. 117-263, set out as a note under section 3003 of this title.

For definitions of “artificial intelligence” and “emerging technology” as used in this section, see section 6701 of Pub. L. 117-263, set out as a note under section 3024 of this title.

§ 3334p. Increased intelligence-related engineering, research, and development capabilities of minority institutions

(a) Plan

(1) Requirement

The Director of National Intelligence shall develop a plan to promote intelligence-related engineering, research, and development activities at covered institutions for the purpose of contributing toward the research necessary to achieve the intelligence advantage of the United States.

(2) Elements

The plan under paragraph (1) shall include the following:

(A) An assessment of opportunities to support engineering, research, and development at covered institutions in computer sciences, including artificial intelligence, quantum computing, and machine learning, and synthetic biology and an assessment of opportunities to support the associated workforce and physical research infrastructure of such institutions.

(B) An assessment of opportunities to enhance the ability of covered institutions—

(i) to participate in intelligence-related engineering, research, and development activities; and

(ii) to effectively compete for intelligence-related engineering, research and development contracts in support of the most urgent research requirements of the intelligence community.

(C) An assessment of the activities and investments the Director determines necessary—

(i) to expand opportunities for covered institutions to partner with other research organizations and educational institutions that the intelligence community frequently partners with to conduct research; and

(ii) to increase participation of covered institutions in intelligence-related engineering, research, and development activities.

(D) Recommendations identifying actions that may be taken by the Director, Congress, covered institutions, and other organizations to increase participation of such institutions in intelligence-related engineering, research, and development activities and contracts.

(E) Specific goals, incentives, and metrics to increase and measure the capacity of covered institutions to address the engineering, research, and development needs of the intelligence community.

(3) Consultation

In developing the plan under paragraph (1), the Director shall consult with covered insti-

tutions and other departments or agencies of the United States Government or private sector organizations that the Director determines appropriate.

(4) Report

Not later than 1 year after December 23, 2022, the Director shall submit to the congressional intelligence committees, the Subcommittee on Defense of the Committee on Appropriations of the Senate, and the Subcommittee on Defense of the Committee on Appropriations of the House of Representatives, and make publicly available on the internet website of the Director, a report containing the plan under paragraph (1).

(b) Activities to support research and engineering capacity

Subject to the availability of appropriations for such purpose, the Director may establish a program to award contracts, grants, or other agreements, on a competitive basis, and to perform other appropriate activities, for any of the following purposes:

(1) Developing the capability, including the workforce and the research infrastructure, for covered institutions to more effectively compete for intelligence-related engineering, research, and development activities and contracts.

(2) Any other purposes the Director determines appropriate to enhance the capabilities of covered institutions to carry out intelligence-related engineering, research, and development activities and contracts.

(c) Increased partnerships between IARPA and covered institutions

The Director shall establish goals and incentives to encourage the Intelligence Advanced Research Projects Activity to—

(1) partner with covered institutions to advance the research and development needs of the intelligence community through partnerships and collaborations with the Intelligence Advanced Research Projects Activity; and

(2) if the Director determines appropriate, foster the establishment of similar relationships between such institutions and other organizations that have partnerships with the Intelligence Advanced Research Projects Activity.

(d) Covered institution defined

In this section, the term “covered institution” means the following:

(1) A part B institution (as defined in section 1061 of title 20).

(2) An institution of higher education (as defined in section 1001 of title 20) not covered by paragraph (1) at which not less than 50 percent of the total student enrollment consists of students from ethnic groups that are underrepresented in the fields of science and engineering, as determined by the Director of National Intelligence.

(Pub. L. 117-263, div. F, title LXVIII, § 6812, Dec. 23, 2022, 136 Stat. 3602.)

Statutory Notes and Related Subsidiaries

DEFINITIONS

For definitions of “intelligence community” and “congressional intelligence committees” as used in this section, see section 6002 of Pub. L. 117-263, set out as a note under section 3003 of this title.

§ 3334q. Detail of individuals from intelligence community to Department of Commerce**(a) Authority**

In order to better facilitate the sharing of actionable intelligence on foreign adversary intent, capabilities, threats, and operations that pose a threat to the interests or security of the United States, particularly as they relate to the procurement, development, and use of dual-use and emerging technologies, the Director of National Intelligence may, acting through the Intelligence Community Civilian Joint Duty Program and in consultation with the Secretary of Commerce, advertise joint duty positions and detail or facilitate the detail of civilian employees from across the intelligence community to the Bureau of Industry and Security of the Department of Commerce.

(b) Detail

Detailees on a joint duty assignment (JDA) assigned pursuant to subsection (a) shall be drawn from such elements of the intelligence community as the Director considers appropriate, in consultation with the Secretary of Commerce.

(c) Expertise

The Director shall ensure that detailees referred to in subsection (a) have subject matter expertise on countries of concern, including China, Iran, North Korea, and Russia, as well as functional areas such as illicit procurement, counterproliferation, emerging and foundational technology, economic and financial intelligence, information and communications technology systems, supply chain vulnerability, and counterintelligence.

(d) Duty credit

The detail of an employee of the intelligence community to the Department of Commerce under subsection (a) shall be without interruption or loss of civil service status or privilege.

(Pub. L. 118-31, div. G, title V, §7501, Dec. 22, 2023, 137 Stat. 1079.)

Statutory Notes and Related Subsidiaries

DEFINITIONS

For definition of “intelligence community” as used in this section, see section 7002 of Pub. L. 118-31, set out as a note under section 3003 of this title.

§ 3334r. Designation of a chief technology officer within certain elements of the intelligence community**(a) Designation authority**

The head of each covered element of the intelligence community shall designate a senior official to serve as the chief technology officer of such element.

(b) Covered elements

For purposes of this section, the covered elements of the intelligence community are the following:

- (1) The Central Intelligence Agency.
- (2) The Defense Intelligence Agency.
- (3) The Federal Bureau of Investigation.
- (4) The National Geospatial-Intelligence Agency.
- (5) The National Security Agency.
- (6) The National Reconnaissance Office.

(c) Responsibility

The chief technology officer of each covered element of the intelligence community shall be responsible for assisting the head of such element in the identification and adoption of technology to advance mission needs.

(d) Prohibition of dual appointment

Any chief technology officer designated pursuant to subsection (a) may not concurrently serve as the chief information officer, the chief data officer, or the principal science officer of any element of the intelligence community.

(Pub. L. 118-31, div. G, title V, §7504, Dec. 22, 2023, 137 Stat. 1083.)

Statutory Notes and Related Subsidiaries

DEFINITIONS

For definition of “intelligence community” as used in this section, see section 7002 of Pub. L. 118-31, set out as a note under section 3003 of this title.

§ 3334s. Programs for next-generation microelectronics in support of artificial intelligence**(a) Program establishment**

Subject to the availability of appropriations, the Director of National Intelligence, acting through the Director of the Intelligence Advanced Research Projects Activity, shall establish or otherwise oversee a program to advance microelectronics research.

(b) Research focus

The Director of National Intelligence shall ensure that the research carried out under the program established under subsection (a) is focused on the following:

- (1) Advanced engineering and applied research into next-generation computing models, materials, devices, architectures, and algorithms to enable the advancement of artificial intelligence and machine learning.
- (2) Efforts to—

(A) overcome challenges with engineering and applied research of microelectronics, including with respect to the physical limits on transistors, electrical interconnects, and memory elements;¹

(B) promote long-term advancements in computing technologies, including by fostering a unified and multidisciplinary approach encompassing research and development into—

- (i) next-generation algorithm design;
- (ii) next-generation compute capability;
- (iii) generative and adaptive artificial intelligence for design applications;
- (iv) photonics-based microprocessors, including electrophotonics;
- (v) the chemistry and physics of new materials;

¹ So in original. Probably should be followed by “and”.