

through the grant to expand cybersecurity education opportunities at the eligible institution.

(c) Activities

An eligible institution that receives a grant under this section may use the funds awarded through such grant for increasing research, education, technical, partnership, and innovation capacity, including for—

(1) building and upgrading institutional capacity to better support new or existing cybersecurity programs, including cybersecurity partnerships with public and private entities;

(2) building and upgrading institutional capacity to provide hands-on research and training experiences for undergraduate and graduate students; and

(3) outreach and recruitment to ensure students are aware of such new or existing cybersecurity programs, including cybersecurity partnerships with public and private entities.

(d) Reporting requirements

Not later than—

(1) one year after the effective date of this section, as provided in subsection (f), and annually thereafter until the Director submits the report under paragraph (2), the Director shall prepare and submit to Congress a report on the status and progress of implementation of the grant program under this section, including on the number and demographics of institutions participating, the number and nature of students served by cybersecurity programs at institutions receiving grants, as well as the number of certificates or degrees awarded through such cybersecurity programs, the level of funding provided to grant recipients, the types of activities being funded by the grants program, and plans for future implementation and development; and

(2) five years after the effective date of this section, as provided in subsection (f), the Director shall prepare and submit to Congress a report on the status of cybersecurity education programming and capacity-building at institutions receiving grants under this section, including changes in the scale and scope of these programs, associated facilities, or in accreditation status, and on the educational and employment outcomes of students participating in cybersecurity programs that have received support under this section.

(e) Performance metrics

The Director shall establish performance metrics for grants awarded under this section.

(f) Effective date

This section shall take effect 1 year after August 9, 2022.

(Pub. L. 117-167, div. B, title II, §10235, Aug. 9, 2022, 136 Stat. 1485.)

PART B—GENERAL ACTIVITIES

§ 18951. International standards development

(a) Sense of Congress

It is the sense of Congress that—

(1) the principles of openness, transparency, due process, balance of interests, appeals, and consensus in the development of international standards are critical;

(2) voluntary consensus standards, developed through an industry-led process, serve as the cornerstone of the United States standardization system and have become the basis of a sound national economy and the key to global market access;

(3) strengthening the unique United States public-private partnerships approach to standards development is critical to United States economic competitiveness; and

(4) the United States Government should ensure cooperation and coordination across Federal agencies to partner with and support private sector stakeholders to continue to shape international dialogues in regard to standards development for emerging technologies.

(b) International standards engagement

(1) In general

The Director shall lead information exchange and coordination among Federal agencies and communication from Federal agencies to the private sector of the United States to ensure effective Federal engagement in the development and use of international technical standards.

(2) Requirements

To support private sector-led engagement and ensure effective Federal engagement in the development and use of international technical standards, the Director shall consider—

(A) the role and needs of the Federal Government with respect to international technical standards;

(B) organizations developing international technical standards of interest to the United States, United States representation and influence in these organizations, and key contributors for technical and leadership expertise in these organizations;

(C) support for persons with domain subject matter expertise, especially from small businesses located in the United States, to influence and engage in technical standards leadership positions, working groups and meetings;

(D) opportunities for partnerships for supporting international technical standards from across the Federal Government, Federally funded research and development centers, university-affiliated research centers, institutions of higher education, industry, industry associations, nonprofit organizations, and other key contributors;

(E) support for activities to encourage the adoption of technical standards developed in the United States to be adopted by international standards organizations; and

(F) other activities determined by the Director to be necessary to support United States participation in international standards development, economic competitiveness, and national security in the development and use of international technical standards.

(c) Capacity building guidance

The Director shall support education and workforce development efforts to promote

United States participation in international standards organizations. The Director shall—

(1) identify and create, as appropriate, technical standards education and training resources for interested businesses, industry associations, academia, nonprofit organizations, Federal agencies, and other relevant standards contributors, including activities targeted at integrating standards content into undergraduate and graduate curricula in science, engineering, business, public policy, and law;

(2) conduct outreach, including to private sector leaders, to support engagement by more United States stakeholders in international technical standards development; and

(3) other activities determined necessary by the Director to support increased engagement, influence, and leadership of United States organizations in the development of international technical standards.

(d) Capacity building pilot program

(1) In general

The Director, in coordination with the Director of the National Science Foundation, and the heads of other relevant Federal agencies, as appropriate, shall establish or enter into cooperative agreements with appropriate nongovernmental organizations to establish a 5-year pilot program to award grants, on a merit-reviewed, competitive basis, to private sector entities, institutions of higher education, or nonprofit institutions based in the United States to support increased participation and leadership by small business and academic interests in international standards organizations.

(2) Use of funds

Grants awarded to eligible entities under this subsection may be used to cover reasonable costs, up to a specified ceiling set by the Director, of activities to support increased engagement and leadership of eligible entity employees in international standards organizations, which may include costs associated with—

(A) travel;

(B) education and training;

(C) dues or fees related to participation in technical standards development activities; and

(D) other such costs that the Director determines may reasonably support participation of the eligible entity in international standards organizations.

(3) Award criteria

The Director shall ensure that award decisions made under this subsection take into account the extent to which the eligible entity—

(A) employs full-time an individual or individuals who demonstrate deep technical standards expertise;

(B) employs full-time an individual or individuals who demonstrate knowledge with the processes of the standards development organization in which the eligible entity intends to engage using grant funds;

(C) proposes a feasible set of standard deliverables to be completed over the period of the grant;

(D) explains how the eligible entity will fund additional standards-related activities necessary to achieve the deliverables referred to in subparagraph (C) if the grant funds are insufficient to cover all costs of such activities;

(E) commits personnel with appropriate expertise to regularly engage in relevant international organizations responsible for developing technical standards over the period of the grant; and

(F) identifies a clearly defined current or anticipated market need or gap that would be addressed by their standards development proposal.

(4) Eligibility

A small business concern (as such term is defined in section 632 of title 15 based in the United States, an institution of higher education, or a nonprofit institution (as such term is defined in section 3703 of title 15) shall be eligible to receive grants under this program.

(5) Guidance on application and award process

The Director shall develop, and periodically update, guidance, including eligibility, applicant disclosure requirements, grant amount and duration, the merit review process, priority areas for standards development, and any additional requirements for how grants are awarded under this subsection.

(6) Merit review process

The Director shall ensure that grants under this subsection are awarded based on a competitive, merit review process including the use of merit review panels that may include experts from both government, the private sector, and, as appropriate, academic, nonprofit, or other organizations as the Director determines appropriate.

(7) Consultation

In carrying out the pilot program established under this subsection, the Director shall consult with other Federal agencies, private sector organizations, institutions of higher education, and nonprofit organizations to help inform the pilot program, including the guidance developed under paragraph (5).

(8) Report to Congress

The Director shall brief Congress after the second year of the pilot program and each year following that includes the following:

(A) An assessment of the effectiveness of the pilot program for improving the participation of United States small businesses, United States institutions of higher education, or other nonprofit research institutions in international standards organizations, including—

(i) the type of activities supported, including leadership roles;

(ii) the international standards organizations participated in; and

(iii) the technical areas covered by the activities.

(B) If determined effective, a plan for permanent implementation of the pilot program.

(Pub. L. 117-167, div. B, title II, §10245, Aug. 9, 2022, 136 Stat. 1488.)

§ 18952. Standards development organization grants

(a) Nongovernmental standards development organization defined

In this section, the term “nongovernmental standards development organization” means a nongovernmental standards development organization (as defined in section 2(e) of the Office of Management and Budget Circular A-119 (relating to Federal participation in the development and use of voluntary consensus standards in conformity assessment activities), or any successor document) that adheres to the American National Standards Institute (ANSI) Essential Requirements for Due Process for American National Standards.

(b) Grant authority

The Secretary of Commerce, acting through the Director, shall establish a competitive program of grants for nongovernmental standards development organizations for the purposes described in subsection (c).

(c) Purposes

A grant awarded under subsection (b) shall be used to develop, approve, disseminate, maintain, and review forensic science voluntary consensus standards and best practices that shall be available to the public free of charge.

(d) Additional requirements

The Director may promulgate such requirements, guidelines, and procedures as may be necessary to carry out this section.

(e) Authorization of appropriations

There are authorized to be appropriated to carry out this section \$2,000,000 for each of fiscal years 2022 through 2026.

(Pub. L. 117-167, div. B, title II, §10248, Aug. 9, 2022, 136 Stat. 1495.)

PART C—HOLLINGS MANUFACTURING EXTENSION PARTNERSHIP

§ 18961. National Supply Chain Database

(a) Establishment of National Supply Chain Database

The Director shall establish a voluntary National Supply Chain Database, subject to the availability of appropriations.

(b) Purpose

The purpose of the voluntary National Supply Chain Database shall be to assist the Federal Government and industry sectors in minimizing disruptions to the United States supply chain by having an assessment of United States manufacturers’ capabilities.

(c) Study on National Supply Chain Database

In establishing the National Supply Chain Database, the Director shall consider the findings and recommendations from the study authorized pursuant to section 9413 of the National Defense Authorization Act for Fiscal Year 2021 (Public Law 116-283), including measures to se-

cure and protect the Database from adversarial attacks and vulnerabilities.

(d) Database and Manufacturing Extension Partnership

(1) In general

The Director shall establish the infrastructure for the National Supply Chain Database through the Hollings Manufacturing Extension Partnership, established pursuant to section 278k of title 15, by connecting information from the Centers (as such term is defined in such section) through the Database.

(2) National view

The Director shall ensure that connections under paragraph (1)—

(A) provide a national overview of the networks of supply chains of the United States; and

(B) support understanding of whether there is a need for some manufacturers to retool in some critical areas to meet the urgent need for key products.

(3) Individual Hollings Manufacturing Extension Partnership Center databases

(A) In general

The Director shall ensure that—

(i) each Center is connected to the National Supply Chain Database; and

(ii) each supply chain database maintained by a Center is interoperable with the Database.

(B) Rule of construction

Nothing in this section may be construed to require a State or territory of the United States to establish a new supply chain database through the Hollings Manufacturing Extension Partnership program.

(e) Maintenance of National Supply Chain Database

The Director, acting through the Hollings Manufacturing Extension Partnership program or a designee of the program—

(1) shall maintain the National Supply Chain Database as an integration of State-level databases from the Center of each State or territory of the United States;

(2) may populate the Database with information from past or current clients of Centers; and

(3) may include in the Database information voluntarily provided by non-client private sector entities based and operating in the United States, as applicable and appropriate.

(f) Database content

The National Supply Chain Database may include the following:

(1) Basic private sector entity information.

(2) An overview of capabilities, accreditations, and products.

(3) Proprietary information.

(g) Standard classification system

The National Supply Chain Database may, where applicable, use the North American Industry Classification System (NAICS) Codes as follows:

(1) Sector 31-33 – Manufacturing.