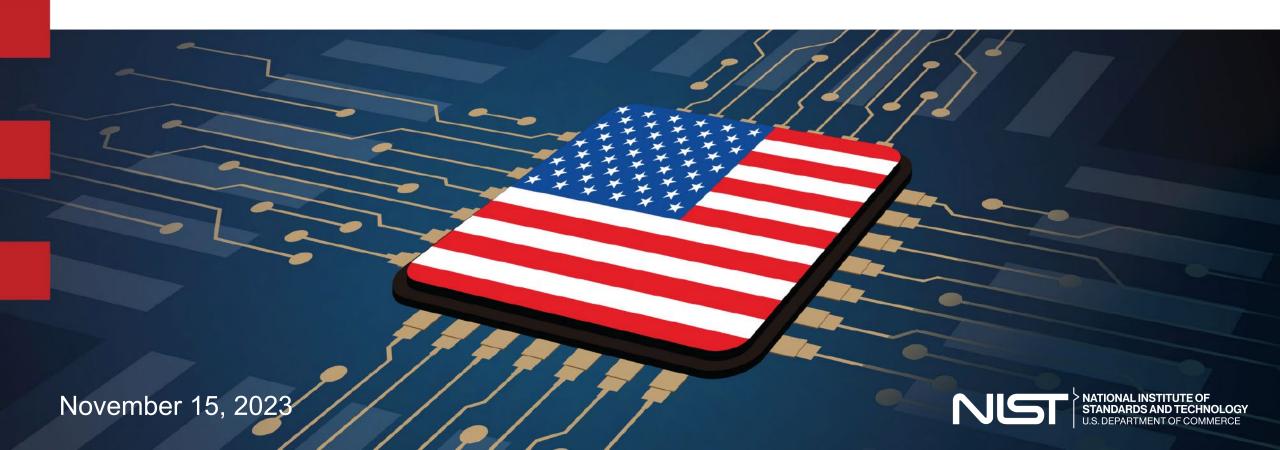


Building the U.S. Semiconductor Workforce CHIPS for America Workforce Update



CHIPS for America Programs



\$39 billion for manufacturing

Components:

- 1. Attract large-scale investments in advanced technologies such as leading-edge logic and memory
- 2. Incentivize expansion of manufacturing capacity for mature and other types of semiconductors

\$11 billion for R&D

- National Semiconductor Technology Center
- National Advanced Packaging Manufacturing Program
- Manufacturing USA institute(s)
- National Institute of Standards and Technology measurement science

Together with CHIPS initiatives from other agencies, including DOD, State, NSF, and Treasury





Workforce development



CHIPS Workforce Call to Action



OVER THE NEXT DECADE...

Double the U.S. semiconductor workforce overall.

Triple the number of graduates in semiconductor-related fields, including engineering.

Train 100,000 new technicians through apprenticeships, career and technical education, and career pathway programs.

Expand recruitment for **more people from underserved communities** – including women and veterans – to launch semiconductor industry careers.

Hire and train an additional million women in construction to meet the demand across a range of industries, including CHIPS projects.

Key Workforce Milestones to date



SINCE THE PASSAGE OF THE CHIPS AND SCIENCE ACT...

At least **seven states have dedicated new funding** to support workforce training for semiconductor jobs.

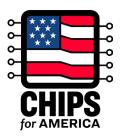
Over **50 community colleges across 19 states** have announced new or expanded programming to support semiconductor opportunities.

Semiconductor companies partnering with labor unions to recruit, train and retain a skilled construction workforce, including several that committed to Project Labor Agreements.

CHIPS for America has engaged directly with **education and training partners in over 25 states**—including hosting in-person workforce roundtables and listening tour sessions.

NSTC Vision and Strategy Paper named workforce development as one of **NSTC's Top**Three priorities

2023 Workforce Development Progress



U.S. Department of Commerce Workforce Development Strategy

CHIPS for America NSTC Vision & Strategy Paper

Workforce Development Planning Guide

Industrial
Advisory
Committee R&D
Workforce
Working Group

CHIPS for America Teaming Partner List







U.S. DEPARTMENT OF COMMERCE
NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
INDUSTRIAL ADVISORY COMMITTEE

CHARTER

- 1. Committee's Official Designation. Industrial Advisory Committee.
- Authority. The Industrial Advisory Committee (IAC or Committee) is established by
 the Secretary of Commerce, in consultation with the Secretary of Defense, the Secretary
 of Energy, and the Secretary of Homeland Security, pursuant to the William M. (Mae)
 Thomberry National Defense, Authorization Act for Fiscal Vera 2021 (Act), Public Law
 Number 116-283, § 9906(b), in accordance with the Federal Advisory Committee Act, as
 superfeld (FACA) \$115.C.
- Objectives and Scope of Activities. The Committee shall act in the public interest to provide advice to the Secretary of Commerce through the National Institute of Standards and Technology (NIST) on matters relating to microelectronics research, development, manufacturing, and policy.
- Description of Duties. The Committee will function solely as an advisory body, in accordance with the provisions of FACA. The Committee shall assess and provide guidance to the Secretary of Commerce, through NIST. on—

(A) science and technology needs of the nation's domestic microelectronic

(C) assessment of the research and development programs and activities authorized under section 9906(a)(3) of the Act is helping maintain United States leadership in microelectronics manufacturing; (C) assessment of the research and development programs and activities authorized under section 9906 of the Act; and

(D) opportunities for new public-private partnerships to advance microelectronic research, development, and domestic manufacturing.

The Committee shall not participate in selecting recipients of federal financial assistance.



Key Incentives Program Workforce Updates



Most CHIPS incentives awards for construction, modernization or expansion of manufacturing facilities will include dedicated funds for workforce development.

Public and private workforce investments in CHIPS-funded facilities expected to exceed \$500 million, based on commitments and industry benchmarks.

Workforce data collection will be embedded in awards to support long-term efforts

CHIPS for America expects new commitments to Registered Apprenticeships and preapprenticeships as a result of CHIPS awards.

CHIPS for America staff expect to work closely with incentives recipients and regional education and training partners to support implementation of workforce strategies.

NSTC Workforce Center(s) of Excellence Concepts



FOUR KEY ROLES:

Convene industry, research, education, government and labor stakeholders

Collect data to measure the success of existing programs and guide future investment

Scale up proven programs

Pilot new efforts, including initiatives to engage underserved communities