



Microelectronics Network Technology

What is a national network for Microelectronics Research & Development?

Section 9903 of the CHIPS for America Act of 2021 authorizes DOD to establish a National Network for Microelectronics Research and Development to enable the lab-to-fab transition of microelectronics innovations in the United States.

What is the microelectronics Commons?

The Microelectronics Commons: A National Network of Prototyping Innovation Hubs The Microelectronics Commons is creating a direct pathway to reduce the country's reliance on foreign microelectronics and safeguard the nation from supply chain risks.

What is a microelectronic hub?

In August of 2023, under the CHIPS and Science Act, the Department of Defense (DoD) selected eight awardees or "Hubs", to build regional powerhouses that can advance microelectronic technical development. Each Hub will propose and submit projects within the Microelectronic Commons program.

What are the goals of Microelectronics Research?

This strategy identifies four goals to guide agency efforts in microelectronics research to (a) accelerate the domestic development and production of microelectronics and strengthen the domestic microelectronics workforce; and (b) ensure that the United States remains a global leader in the field of microelectronics R&D.

How many microelectronics hubs are there in Massachusetts?

The eight regional hubs include: The Northeast Microelectronics Coalition Hub. This hub is led by the Massachusetts Technology Collaborative in Massachusetts, has 90 hub members, and has been awarded \$19.7 million. The Silicon Crossroads Microelectronics Commons Hub.

What is microelectronics manufacturing?

microelectronics manufacturing is an incredibly complex and global process, involving hundreds of steps completed over several months, with many components using international expertise and facilities as they traverse the world several times.

Microelectronics Thrust nurtures future innovators, researchers, and professionals through top-tier education, pioneering research, and industry collaboration. Our comprehensive curriculum ...

After entering the new century, traditional semiconductor scaling approaches have been challenged to provide satisfactory solutions for increasing the performance of integrated circuits. The conventional methods ...

Introduction to Microelectronics. Microelectronics is a specialized field of electronics involving the study and

manufacture of micro-sized circuits and electronic components. This area is crucial ...

Overview In September 2024, the U.S. National Science Foundation (NSF) and Department of Commerce (DOC) launched a \$30 million funding opportunity, as part of the bipartisan CHIPS ...

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