

Microelectronics Network Technology



Overview

Tiny but powerful, microelectronics are essential to daily life today. Scientists are working to make them even smaller and more energy efficient. Schematic of a cross-bar circuit element designed for future low power, non-volatile memory or neuromorphic computing applications. Join us for the 2026 Microelectronics Commons Annual Meeting - a three-day event showcasing thought leadership and innovation. Enhance the microelectronics education and training pipeline to bolster the microelectronics engineering workforce. The Microelectronics Commons program comprises eight regional Hubs, each managing its network of commercial innovators. secure microelectronics solutions addressing new approaches to. What is the field of microelectronics and why is it so important?

What is the field of microelectronics and why is it so important?

In this Q&A, SLAC experts discuss how microelectronic devices impact our lives, the breakthroughs needed for future technologies and how researchers at the lab are. The Network Coordination Hub for the National Network for Microelectronics Education will establish and operate regional nodes to offer consistent, rigorous, engaging curricula, instructional materials, experiential opportunities, teacher professional development and more Today, the U. National. The Office of Science and Technology Policy (OSTP) was established by the National Science and Technology Policy, Organization, and Priorities Act of 1976 to provide the President and others within the Executive Office of the President with advice on the scientific, engineering, and technological. The U.

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What is the field of microelectronics and why is it so important?

What is the field of microelectronics?
 McIntyre: I think of microelectronics as an evolving set of technologies used for information processing, retrieval and storage, as well as connecting ...

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How microelectronics will take computing to new heights

Scientists at the U.S. Department of Energy's (DOE) Argonne National Laboratory are inventing the next generation of these computing building blocks. The impact extends beyond our ...



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10 years

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 -20°C to 55°C



Microelectronic Commons - DoW Research & Engineering, OUSW ...

The Microelectronics Commons Hubs The Microelectronics Commons program comprises eight regional Hubs, each managing its network of commercial innovators.

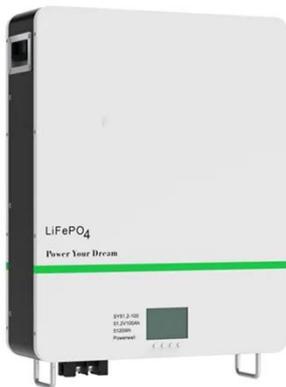
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U.S. National Science Foundation

and Department of Commerce

The NNME will be coordinated by the Network Coordination Hub to develop and catalyze new and existing efforts meant to prepare individuals for roles in the microelectronics workforce.

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Ecosystem - Midwest Microelectronics Consortium

The MMEC brings together a dynamic network of innovators, manufacturers, universities, and government partners to strengthen America's microelectronics leadership.

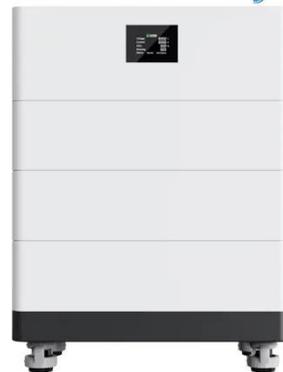
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Network Coordination Hub for National Network for Microelectronics

The NNME, composed of the Network Coordination Hub, regional nodes, and other entities will operate as a coordinated effort, enabling the capabilities, facilities, and resources of the ...

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High Voltage Solar Battery



DoD Microelectronics Commons

The Microelectronics Commons is a CHIPS-funded national network that will create direct pathways to



commercialization for US microelectronics researchers and designers from "lab to fab."

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Department of Defense Invests Additional \$160 Million in CHIPS Act

The U.S. Department of Defense has invested an additional \$160 million of funds from the Biden-Harris Administration's bipartisan CHIPS and Science Act to advance America's ...



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National Strategy on Microelectronics Research

Microelectronics underpin a wide range of emerging technologies including quantum information sciences, artificial intelligence, advanced wireless networks (6G and beyond), and safe and secure

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