

Advanced microelectronics technologies underpin the entire DOE mission

- DOE missions in Energy, Science & Innovation, and National Security & Safety both rely upon and support advanced computing and semiconductor technologies



DOE Microelectronics Science Research Centers

- As authorized by the CHIPS and Science Act (Section 10731, Micro Act) the DOE FY 2024 President's Budget request includes \$60M/year to establish **Microelectronics Science Research Centers**.
- Centers would perform mission-driven research to address foundational challenges in the design, development, characterization, prototyping, demonstration, and fabrication of microelectronics.
- Centers would focus on fundamental science and early-stage research, complementing the investments already made through the CHIPS Act, such as:
 - ❖ DOC National Semiconductor Technology Center (NSTC)
 - ❖ DOD Microelectronics Commons
- Centers would leverage infrastructure and expertise at the DOE National Labs.

