

75 years of microelectronics innovation in Arizona



1940s–2000

1949

Motorola opens first R&D lab in Arizona.

1958

The School of Engineering is created, and the first engineering class graduates from Arizona State College.

1976

Netherlands-based semiconductor equipment company ASM opens its North American headquarters in Phoenix.

1980

Intel opens manufacturing facility in Chandler.

1997

Motorola constructs Tempe facility.

1999

ON Semiconductor spins out of Motorola.

2001–2020

2001

Intel opens Fab 22 in Chandler, a \$2 billion advanced chip manufacturing facility.

2004

ASU acquires former Motorola facility and reopens it as R&D facility MacroTechnology Works at the ASU Research Park.

2007

Intel opens Fab 32, the world's most advanced semiconductor facility, in Chandler.

2016

Greater Phoenix Economic Council releases report establishing plan for growth of microelectronics industry in Arizona.

2017

Intel announces \$7 billion investment in Fab 42, creating 3,000 jobs.

2020

TSMC approved to develop \$12 billion semiconductor factory in north Phoenix.

NXP Semiconductors announces new Gallium Nitride fab in Chandler.

2021–present

2021

Intel announces \$20 billion expansion, creating 21,000+ jobs.

Arizona Legislature funds the New Economy Initiative, investing \$51 million in ASU engineering programs, faculty hiring, workforce development and Science and Technology Centers.

2022

CHIPS and Science Act appropriates \$52 billion to launch programs to secure U.S. microelectronics leadership and supply chains.

Arizona announces investment of \$100 million, managed by the Arizona Commerce Authority, to support the state's semiconductor industry.

2023

May

ASU co-hosts the first North American Semiconductor Conference with the Semiconductor Industry Association.

July

Applied Materials invests \$200 million, supplemented by \$30 million from the Arizona Commerce Authority, to create the Materials-to-Fab Center at ASU's MacroTechnology Works.

September

U.S. Department of Defense awards \$39.8 million to the ASU-led Southwest Advanced Prototyping (SWAP) Hub to become one of eight regional innovation centers for the Microelectronics Commons initiative.

December

The Arizona Commerce Authority announces a \$17.5 million investment in partnership with NXP Semiconductors and ASU to expand the state's semiconductor manufacturing ecosystem.

2024

February

The Department of State announces ASU as its partner and awards it \$13.8 million as part of the CHIPS Act, to bolster assembling, testing and packaging capabilities in partner countries in the Americas and the Indo-Pacific.

March

Intel receives a \$8.5 billion grant from the CHIPS Act to support the expansion of Intel's semiconductor production in Arizona and three other states. As part of the grant, Intel will make its own \$100 billion investment into the projects.

Arizona Commerce Authority issues report stating that since January 2020, over 35 companies in the semiconductor industry have announced plans to expand or relocate to Arizona, representing more than \$65 billion in investment.

ASU and Deca Technologies announces a new partnership to create Center for Advanced Wafer-Level Packaging Applications and Development, North America's first fan-out wafer-level packaging (FOWLP) research and development capability.

April

The federal government announces \$6.6 billion in grants from the CHIPS Act to support TSMC's semiconductor production in Arizona, including news of a third fab to open by 2030.