

# SEMICONDUCTORS

## Building America's Innovation Economy

Maintaining a vibrant U.S. semiconductor industry is strategic to America's continued strength.



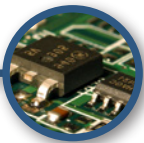
ECONOMIC STRENGTH



NATIONAL SECURITY



TECHNOLOGY LEADERSHIP



Semiconductors are the **BRAINS OF MODERN ELECTRONICS**, enabling advances in communications, computing, health care, defense, transportation, clean energy, and **EMERGING TECHNOLOGIES** such as artificial intelligence, quantum computing, and advanced wireless networks.



The U.S. semiconductor industry is the **WORLDWIDE INDUSTRY LEADER** with about **HALF OF GLOBAL MARKET SHARE** through sales of \$209 billion in 2018.



The semiconductor industry directly employs nearly a **QUARTER OF A MILLION PEOPLE** in the U.S. and supports more than **ONE MILLION ADDITIONAL JOBS** throughout the U.S. economy.



The U.S. semiconductor industry is one of the world's **MOST ADVANCED MANUFACTURING SECTORS**. Nearly **HALF** of U.S. semiconductor companies' manufacturing base is in the United States, and **19 STATES** are home to semiconductor manufacturing facilities.



Semiconductors are **AMERICA'S #4 EXPORT** after airplanes, refined oil, and crude oil, and ahead of cars. **MORE THAN 80%** of U.S. semiconductor companies' sales are to overseas customers. The United States exported **\$44 BILLION** in semiconductors in 2018 and maintains a **CONSISTENT TRADE SURPLUS** in semiconductors.



The U.S. semiconductor industry annually invests about **ONE-FIFTH OF REVENUE** in **R&D**. This was the **SECOND-HIGHEST SHARE OF ANY MAJOR U.S. INDUSTRY** in 2018, behind only the pharmaceutical industry.



The rapid pace of innovation has enabled the semiconductor industry to produce exponentially **MORE ADVANCED PRODUCTS AT LOWER COST**, a principle known as **MOORE'S LAW**. As a result, a single smartphone today has **FAR MORE COMPUTING POWER** than the computers used by NASA to land a person on the moon during the Apollo 11 mission.



The U.S. semiconductor industry is **AMERICA'S #1 CONTRIBUTOR TO LABOR PRODUCTIVITY GROWTH**, as semiconductor technology has made virtually all sectors of the U.S. economy—from farming to manufacturing—more effective and efficient.