

POWERING THE MODERN WORLD

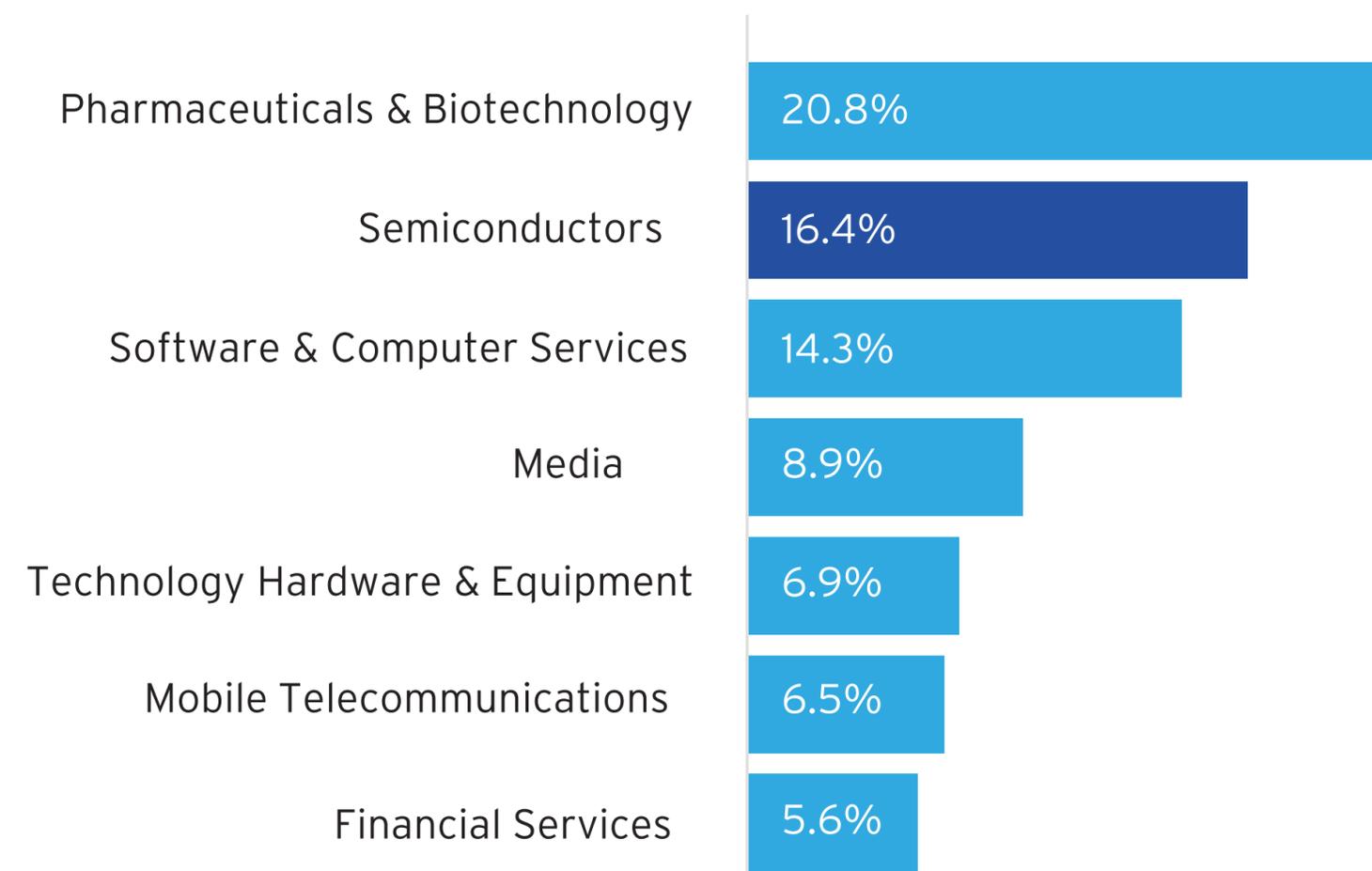
SIA SEMICONDUCTOR
INDUSTRY
ASSOCIATION

2020

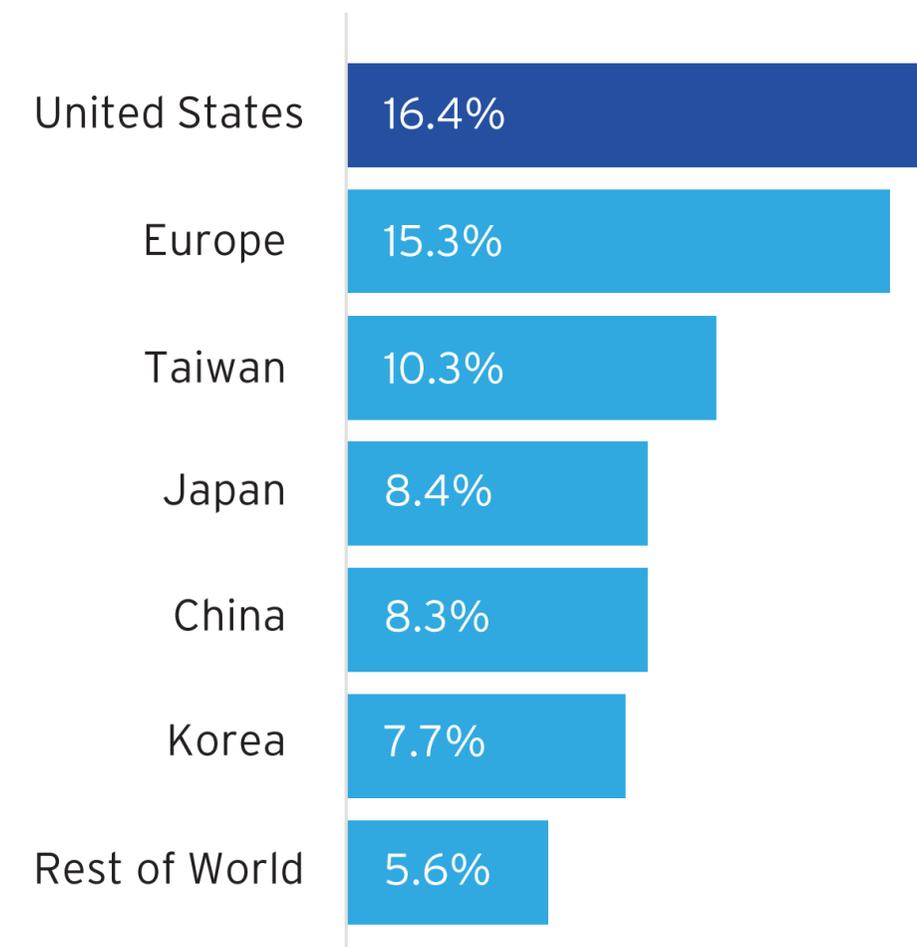
AN R&D INTENSIVE INDUSTRY

R&D EXPENDITURES AS A PERCENT OF SALES (2019)

BY INDUSTRY



BY COUNTRY



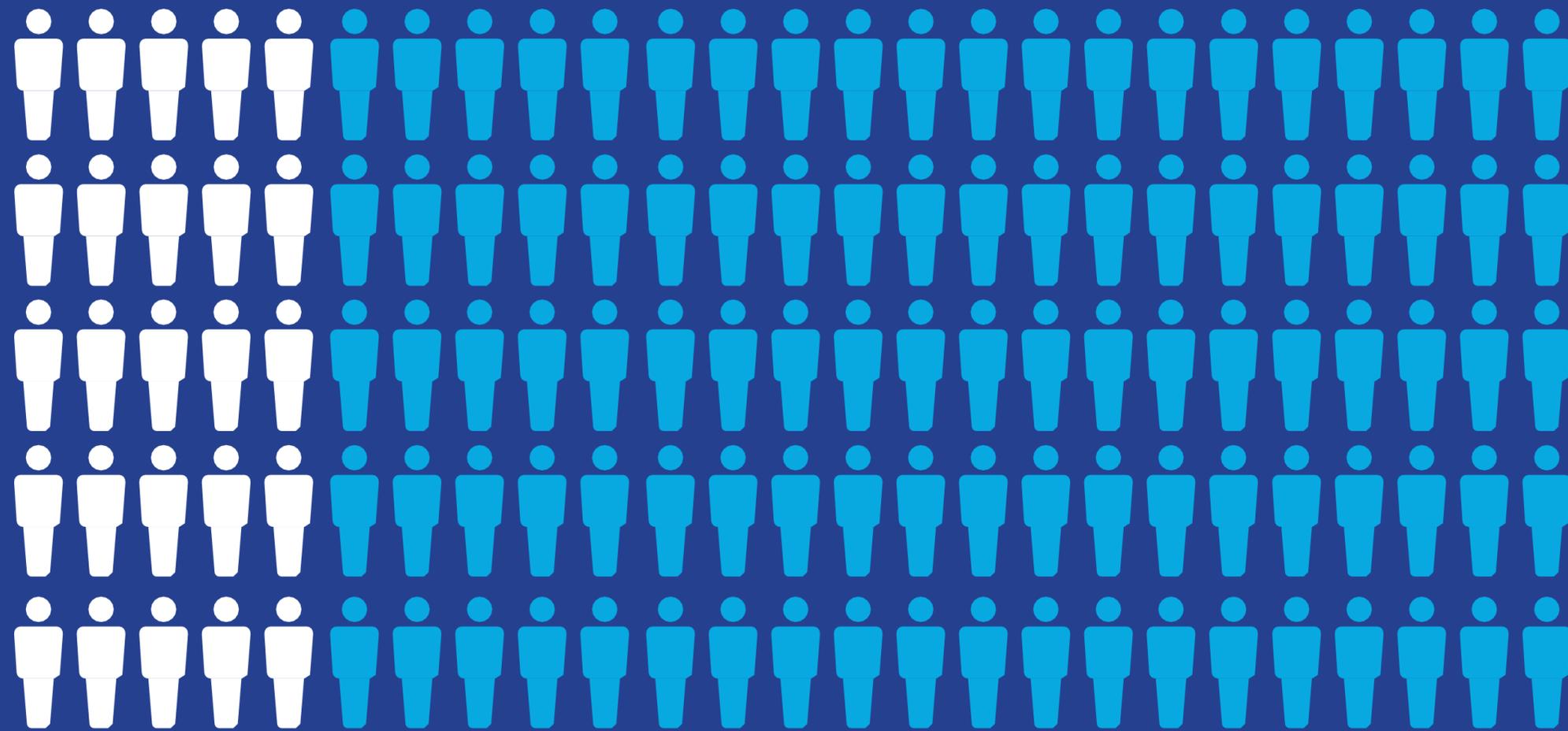
Source: The 2019 EU Industrial R&D Investment Scoreboard.

ESSENTIAL FOR NATIONAL SECURITY

ABOUT SEMICONDUCTORS



1 U.S. SEMICONDUCTOR JOB SUPPORTS 4.89 OTHER JOBS IN U.S. ECONOMY



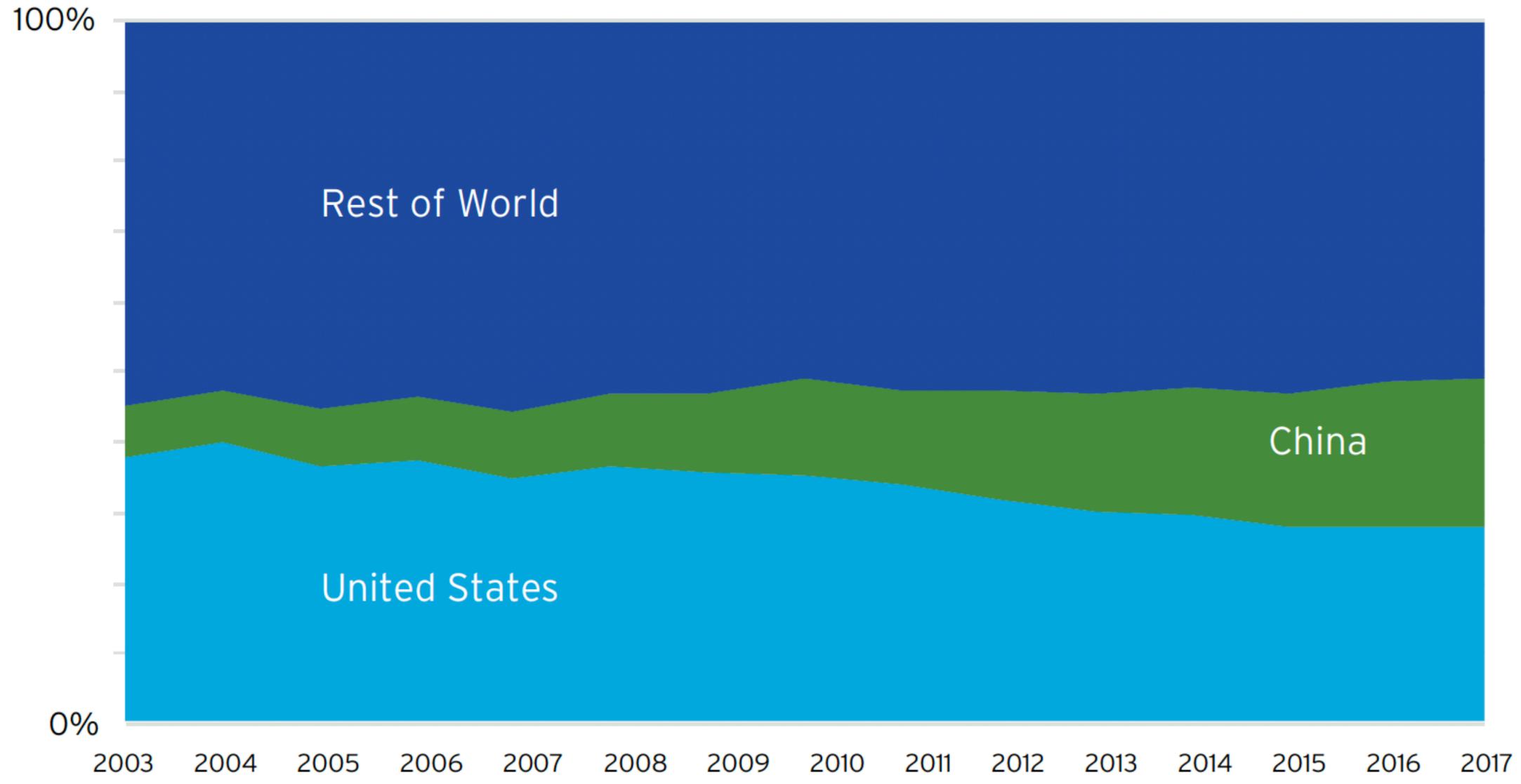
~250,000 Direct Semiconductor Jobs.



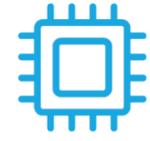
MORE THAN 1 MILLION Additional Jobs in the U.S. Economy.

INVESTMENT IN RESEARCH

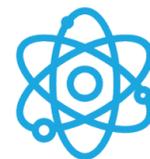
GOVERNMENT R&D (SHARE OF TOTAL)



ACTION NEEDED



TRIPLE INVESTMENT IN SEMICONDUCTOR - SPECIFIC RESEARCH

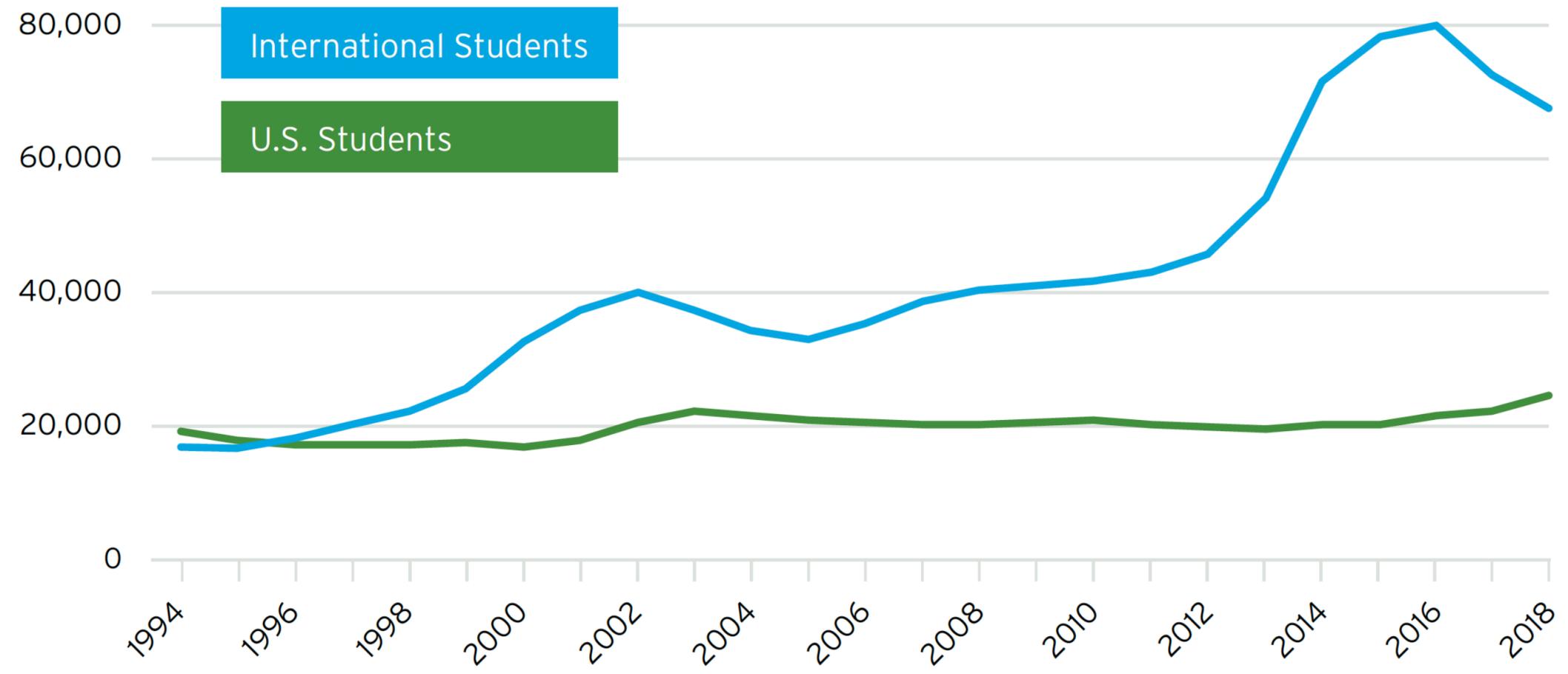


DOUBLE INVESTMENT IN KEY FIELDS
(e.g. materials science, computer science, applied mathematics)

Source: OECD Science Indicators, April 2020

WORKFORCE DEVELOPMENT

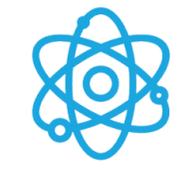
FULL-TIME U.S. GRADUATE STUDENTS IN ELECTRICAL ENGINEERING & COMPUTER SCIENCE



CONGRESSIONAL ACTION NEEDED



REFORM THE HIGH-SKILLED IMMIGRATION SYSTEM by eliminating caps on green cards for STEM students.



INCREASE INVESTMENT IN STEM EDUCATION to double the number of STEM graduates.

Source: National Science Foundation, National Center for Science and Engineering Statistics, Graduate Students and Postdoctorates in Science and Engineering Survey.

POWERING THE MODERN WORLD

SIA SEMICONDUCTOR
INDUSTRY
ASSOCIATION

2020