

## National Science Board Science and Engineering Indicators





# WASHINGTON

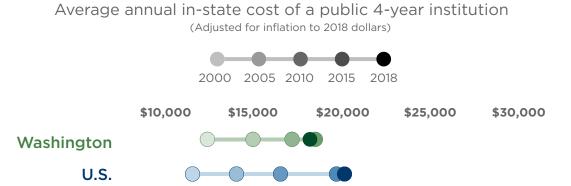
According to the latest data released by the National Science Board in its <u>2020 Science and</u> <u>Engineering Indicators</u> report, the United States leads in a number of science and engineering (S&E) measures. For example, the U.S. invests the most in research and development, attracts the most venture capital, awards the most doctoral degrees, and provides the most business, financial, and information services.

A state's S&E performance helps fuel its and the nation's economy. Four benchmarks of Washington's S&E performance are highlighted here: the cost of public higher education, the size of the STEM workforce, investment in research and development, and venture capital funding.

### **Rising Cost of a Bachelor's Degree**

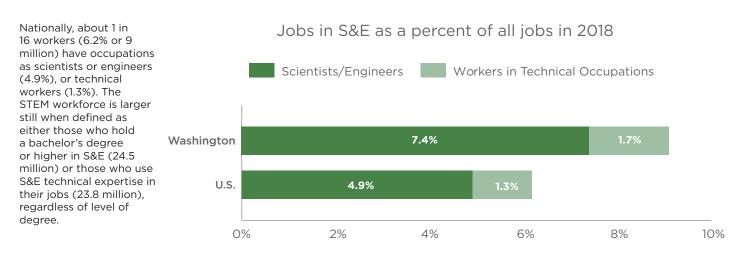
A bachelor's degree is one of several entry points to higher paying jobs associated with science, engineering, and many technical occupations.

Nationally, 34% of the total U.S. workforce has a bachelor's degree or higher. In contrast, 76% of workers in S&E occupations have a bachelor's degree or higher.



Source: National Center for Education Statistics, Digest of Education Statistics

### STEM Workforce: People Working in STEM Occupations



Source: U.S. Department of Labor, Bureau of Labor Statistics, Occupational Employment Statistics Survey

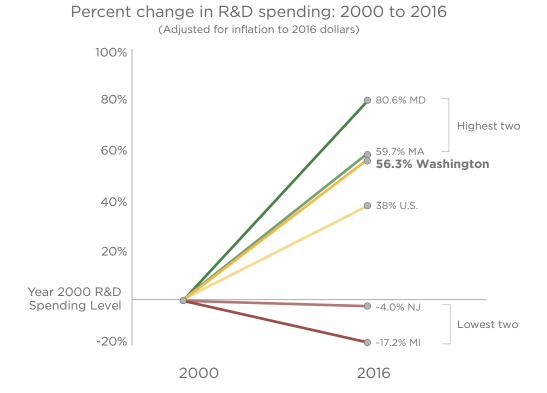
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#### **Real Change in Research & Development Performed**

Research and development (R&D) spending is a driver of innovation. Investing in science and technology today has ripple-effect benefits throughout the economy over the long term.

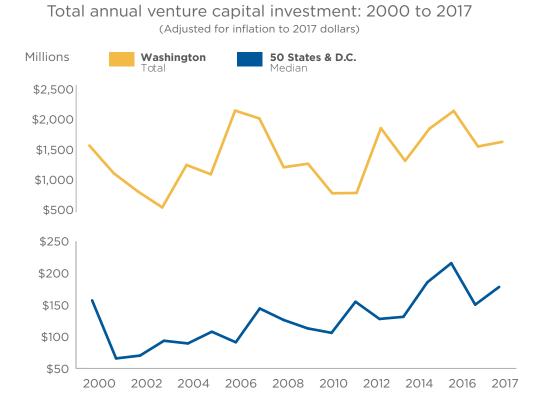
Annual state performance in R&D varies considerably, from \$289 million (SD) to \$135.1 billion (CA). Washington is one of 9 states that performs between \$15 to \$30 billion per year in R&D. In this figure, Washington's percent change in R&D spending is compared to the two highest and the two lowest states within this group.

Total 2016 Research and Development Performed WA \$22.9B U.S. \$515.3B



Source: NSF, National Center for Science and Engineering Statistics, National Patterns of R&D Resources

#### **Venture Capital Investment**



Venture capital investment supports U.S. businesses that take on the risk of developing and commercializing cuttingedge, emerging technologies. States with high values are successful at attracting venture capital to fuel new kinds of business, and ultimately, expand economic growth.

Capital Investment
WA \$1.7B
U.S. \$80.6B

**Total 2017 Venture** 

**Source:** Pitchbook Venture Capital and Private Equity Database

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