

### National Science Board Science and Engineering Indicators



# West Virginia

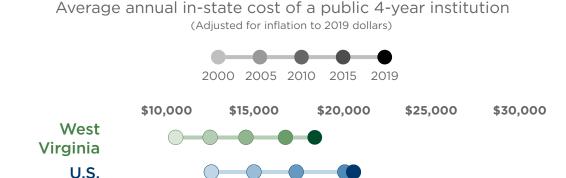
According to the latest data released by the National Science Board in its <u>2022 Science and</u> <u>Engineering Indicators</u> report, the United States leads in a number of science and engineering (S&E) measures. For example, the U.S. invests the most in research and development, attracts the most venture capital, awards the most doctoral degrees, and is the largest producer of output from knowledge- and technology-intensive service industries.

A <u>state's S&E performance</u> helps fuel its and the nation's economy. Four benchmarks of West Virginia's S&E performance are highlighted here: the cost of public higher education, the size of the science, technology, engineering, and math (STEM) workforce, investment in research and development, and venture capital funding.

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

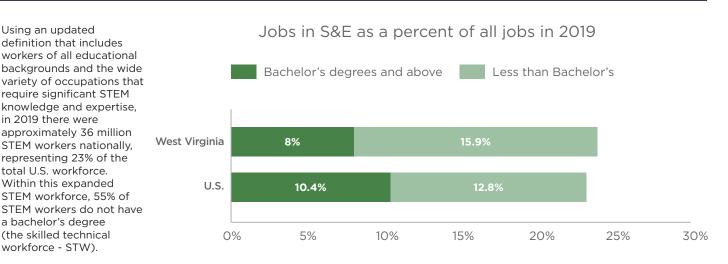
A bachelor's degree is one of several entry points to higher paying jobs associated with science, engineering, and many technical occupations.

Nationally, 36% of the total U.S. workforce has a bachelor's degree or higher. In contrast, 45% of workers in the STEM workforce 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. Census Bureau, American Community Survey (ACS), 2019, Public Use Microdata Sample (PUMS), Data as of 25 October 2020.

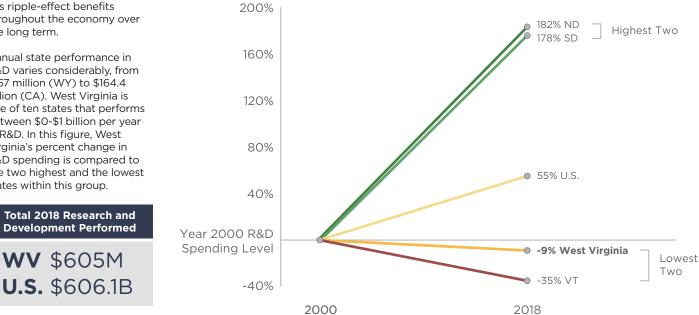
#### **Real Change in Research & Development Performed**

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 \$157 million (WY) to \$164.4 billion (CA). West Virginia is one of ten states that performs between \$0-\$1 billion per year in R&D. In this figure, West Virginia's percent change in R&D spending is compared to the two highest and the lowest states within this group.

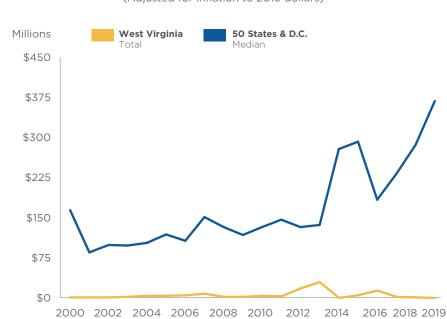
WV \$605M





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

## **Venture Capital Investment**



Total annual venture capital investment: 2000 to 2019 (Adjusted for inflation to 2019 dollars)

Source: PitchBook Venture Capital and Private Equity Database

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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.

