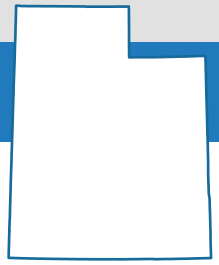
National Science Board
Science and Engineering Indicators 2020



UTAH

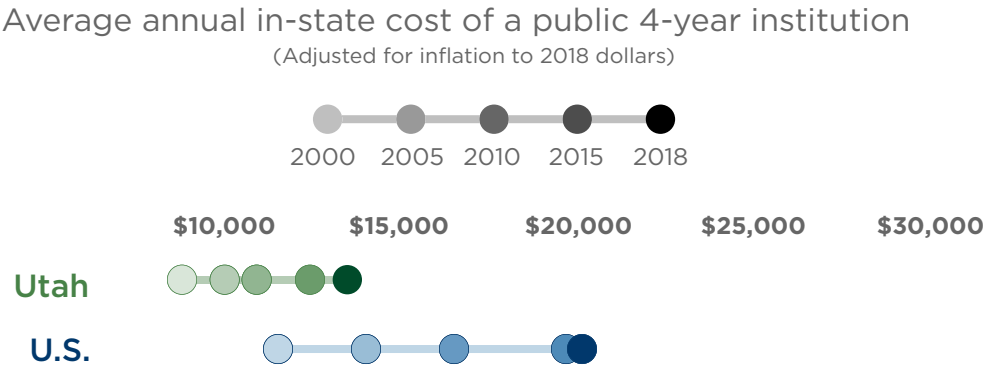
According to the latest data released by the National Science Board in its *2020 Science and Engineering Indicators* report, the United States leads in a number of science and engineering (S&E) measures. For example, the U.S. invests the most in research and development, attracts the most venture capital, 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 Utah'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.

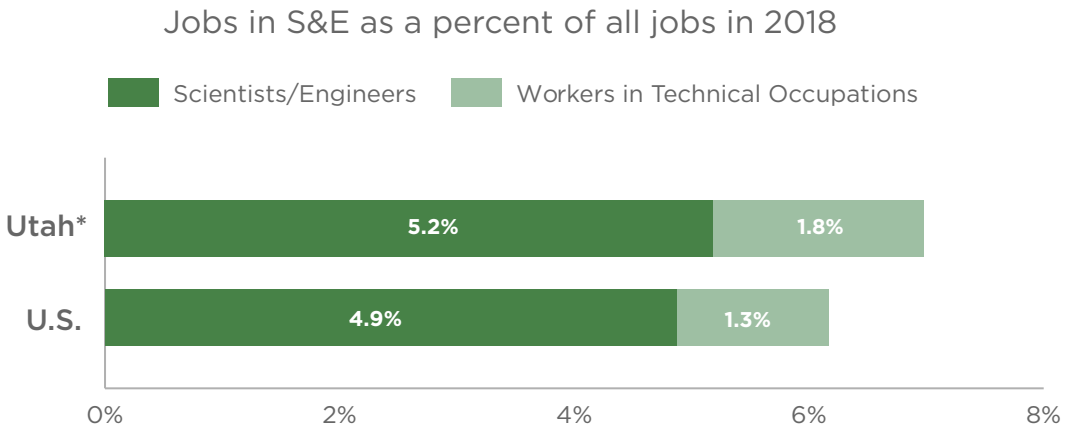
Nationally, 34% of the total U.S. workforce has a bachelor's degree or higher. In contrast, 76% of workers in S&E occupations have a bachelor's degree or higher.



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

STEM Workforce: People Working in STEM Occupations

Nationally, about 1 in 16 workers (6.2% or 9 million) have occupations as scientists or engineers (4.9%), or technical workers (1.3%). The STEM workforce is larger still when defined as either those who hold a bachelor's degree or higher in S&E (24.5 million) or those who use S&E technical expertise in their jobs (23.8 million), regardless of level of degree.



Source: U.S. Department of Labor, Bureau of Labor Statistics, Occupational Employment Statistics Survey
*2017 data; 2018 data is not available for Utah.

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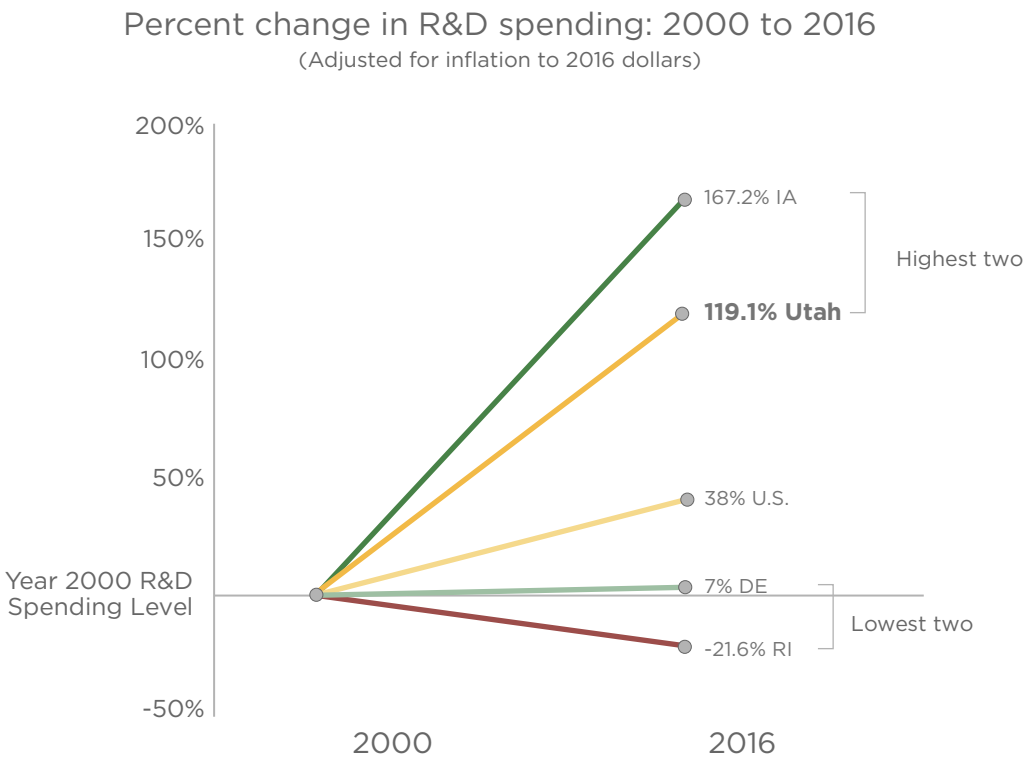
Real Change in Research & Development Performed

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). Utah is one of 14 states that performs between $1 to $5 billion per year in R&D. In this figure, Utah's percent change in R&D spending is compared to the highest and the two lowest states within this group.

Total 2016 Research and Development Performed

UT $4.2B
U.S. $515.3B



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

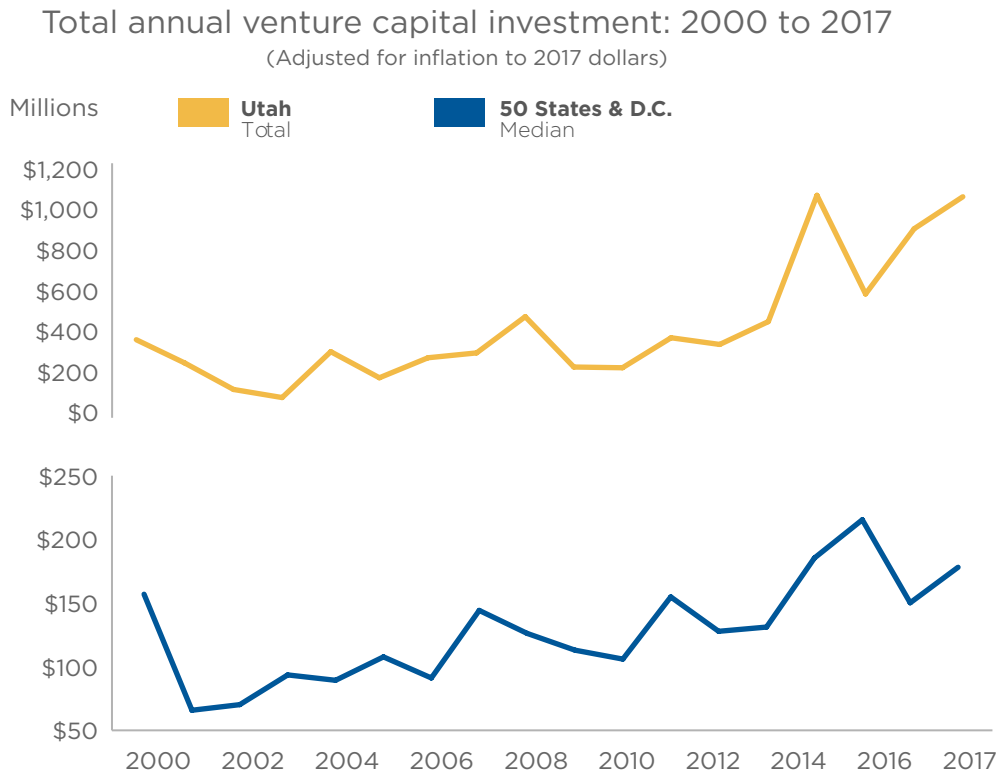
Venture Capital Investment

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

Total 2017 Venture Capital Investment

UT $1.1B
U.S. $80.6B

Source: Pitchbook Venture Capital and Private Equity Database



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