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.

A state’s S&E performance helps fuel its and the nation’s economy. Four benchmarks of South Dakota’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.

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.

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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). South Dakota is one of 12 states that performs between $0 to $1 billion per year in R&D. In this figure, South Dakota’s percent change in R&D spending is compared to the two highest and the two lowest states within this group.

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.

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

Source: Pitchbook Venture Capital and Private Equity Database

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