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WASHINGTON STATE
STEM EDUCATION INNOVATION ALLIANCE

2019
STEM Education
Report Card



More information about the STEM Education Innovation Alliance, including contact information and citation details, can be found on its website: <https://stem.wa.gov>.

STEM EDUCATION INNOVATION ALLIANCE

- Legislatively created in 2013 [E2SHB 1872]
- Brings together leaders from a broad range of business, labor, education, government, and nonprofit organizations.
- Advises Washington's Governor and Legislature on policy and strategic planning in support of STEM education initiatives.



Mission

To promote innovative policies that enhance STEM education and career pathways, advance economic development, meet our state's urgent workforce demands, incentivize regional public and private partnerships, and provide opportunities for more Washingtonians to compete for jobs in this vital high-wage sector.

THE STEM EDUCATION INNOVATION ALLIANCE'S IMPACT

A History of Successful Advocacy for STEM Education in Washington

In collaboration with its partners, the STEM Alliance has helped secure key legislation and funding to drive STEM Advancement in Washington State.

- Increased Support for K-12 science teacher training in Next Generation Science Standards.
- Computer Science and Education grants for early learning and K-12 curriculum development, teacher training, technology, and digital access.
- Expansion of computer science and engineering programs.
- Extension of MESA to more community and technical colleges.
- Increased funding for Washington State Opportunity Scholarship.

The STEM Landscape: Progress in some areas but challenges remain

PROGRESS HIGHLIGHTS

- **STEM degree and long-term certificate completions have shown steady increases in recent years.**
- **2018 AP Exam pass rates for Washington students in a wide range of STEM subjects significantly exceed national averages.**
- **The number of high schools offering AP Computer Science has continued to grow – from 21 schools in 2011 to 130 schools in 2018.**

The STEM Landscape: Progress in some areas but challenges remain

CHALLENGES:

- **Students from low-income and underserved minority families are disadvantaged at all stages.**
- **A gender imbalance in STEM achievement tends to widen as students move through their education.**
- **Rapidly growing workforce demand is still outpacing STEM degree production in key occupational areas.**

2019 Policy Recommendations

- **Expand career-connected learning opportunities in STEM**
- **Expand data and measurement capacity**
- **Broaden computer science education**
- **Enhance climate science education**

2019 Policy Recommendations

- **Fully fund the Washington College Promise Scholarship**
- **Continue support for the Opportunity Scholarship**
- **Extend broadband access to all rural communities**
- **Expand early learning math literacy programs**

Questions / Discussion

