

2019 ANNUAL REPORT



Advancing excellence, innovation, and equity in STEM education for all Washington students.

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Last year made it clear that alignment of our work across the state is more important than ever. In doing so, and in collaboration with our ten regional STEM Network partners, we helped 1 million students access STEM education and career resources, equipped more than 5,200 educators, parents, and caregivers with early math resources, and launched two critical data dashboards to forecast Washington's labor landscape and help students identify where the jobs are and what credentials are needed. This work helped lay a critical foundation for our efforts in the coming months and years—a foundation that centers our work on students furthest from opportunity. I am proud of all of this and more, and we couldn't have done this without you! Thank you.

These uncertain times magnify the need to focus on quality education for students of color, rural students, and those growing up in low-income households. COVID-19 is undermining students at every level of our education system. Educators are scrambling to provide continued learning opportunities, and families are suddenly becoming homeschool teachers. Unfortunately, this health crisis has laid bare that the pre-existing and persistent inequities in our systems are exponentially worsened in crisis. School districts have varying capabilities for online instruction and families have varying abilities to juggle the dual roles of employee and teacher. State agencies are working diligently to meet the myriad needs of students and families—for which we are grateful. Washington STEM stands at the ready to support them in whatever way we can.

We remain fierce advocates of the systems-level work required to ensure that all students have access to quality STEM education and that students furthest from opportunity are not left behind. As our frontline healthcare workers battle against COVID-19 and our scientists research lines of defense, the need for Washington students to pursue STEM credentials has never been clearer. Our commitment to this work has never been stronger.

As we continue to move forward in 2020, we know that we're stronger together. We will remain nimble. We will be creative. We will forge new partnerships and identify opportunities amidst these challenging times to drive toward our shared goal of increasing the number of students pursuing education beyond high school and forging bright futures of their own here in our state. We refuse to let COVID-19 derail our plans and instead will use this as an opportunity to find ways to galvanize our collective strength to push through together. With your help, we will ensure that Washington students have access to bright futures and the opportunity to be an active part of sustaining Washington's communities and economy. #WeGotThisWA

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Andy Shouse, Ph.D.
Chief Program Officer

Gilda Wheeler
Senior Program Officer



Angela Jones, J. D.
Chief Executive Officer



Liz Tinkham
Board Chair

2019 IMPACT



1,000,000+

K-12 students supported through our STEM Networks and partners



2 priority House Bills passed in support of Career Pathways

- HB2158 helped launch Career Connect Washington—which builds upon the success of our STEM Networks and creates career opportunities for students
- HB2140 helped fund a full-time career connecting learning coordinator position at educational service districts across the state

70+ meetings with policymakers and staff on Advocacy Day alongside 40 business, education, and community partners from across the state

39 data and STEM resource workshops facilitated

 **5,200+**

educators and parents/caregivers supported with resources in early math

Zeno Math - King County STEM Partners



22,400+ young children gained early math learning experiences

39,000 career connected learning experiences for students in partnership with Career Connect Washington

10 regional STEM by the Numbers reports

48 Media mentions including Puget Sound Business Journal, Spokesman Review, Yakima Herald

2 open-sourced data dashboards launched – CORI & Labor Market Dashboard

1.1M

social media impressions

social **42K** engagements

"Data provided by this team has informed my decision to invest in STEM and I.T. Programs at Seattle Central to ensure our diverse student base is well prepared to benefit from the opportunities available in our growing economy."

Dr. Sheila Edwards Lange
President of Seattle Central College

In 2019, Washington STEM welcomed its new CEO, Angela Jones. Read on to learn a little about her and what drives her to create opportunity and impact for Washington students.

Q: What motivates you?

The work can sometimes seem daunting, but I think about how far our state has come as it relates to equity. As a woman of color, I can share space to problem solve in 2019 with people who don't look like me. This was not always the case. While there are still moments of discomfort and frustration, I pay homage to my people and allies before me that pushed the envelope. So, I'm motivated to push the envelope on behalf of all the children in Washington state, including my own. Right now, we are in the driver's seat and they deserve our best.

Q: Why did you decide to take this job?

When I read the job description, I loved that this job and organization put everything that's important to me into one role. I have been in educational roles for most of my professional career because I understand how access to education has shaped the future for generations of families. I appreciate how we're working to connect community, education, and employers and understand what each constituency needs in order to best sustain our communities and economy.



College Place Middle School - MLK Day Celebration

Q: What do equity in STEM education and career mean to you?

I've long been passionate about equity and the ability to move the needle for a variety of students from all walks of life. This means students of color, girls, students from low-income backgrounds, and students living in rural areas understand that STEM opportunities are indeed for them. This means those students get access to the education and technology needed to learn as other students in a well-resourced environment. This means we have the chance to help students access family sustaining wages so that our communities and state don't just survive; I want all of us to have the chance to thrive.



Q: What are your hopes for Washington students?

I hope that our students get the best STEM education possible, no matter their zip code, race, ethnicity, or gender. And I hope they receive that stellar education because those of us who work to deliver on that promise are authentically partnered to pool our resources, knowledge, and social capital to make it happen.

Q: If you could go anywhere in the world right now, where would you go?

There's not just one place! The bucket list includes Belize and London. However, I am really trying to figure out how to get back to the Philippines to visit my family and bring my son to meet them.

Q: What does life look like for you outside of work?

When not in quarantine basketball, basketball, and more basketball! We're a hoop family. I also recently took up kickboxing to get back into fighting form and love distance cycling. I also spend quite a bit of time reflecting, fostering my faith, and centering myself around my "why."

Q: What's one thing about you people can't find through the internet?

I LOVE airplanes! I was a Navy kid who spent significant time on naval air stations. So yes, "Top Gun" is my favorite movie. I consider the proximity of our office to Boeing field to be a major bonus.

GRATITUDE

This work is fueled by the generous support of our community—all of you! Thank you. We are grateful for your partnership.

\$50,000+

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First Tech Federal Credit Union
Juno Therapeutics (a Celgene Company)
PEMCO
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2019 LEGISLATOR OF THE YEAR

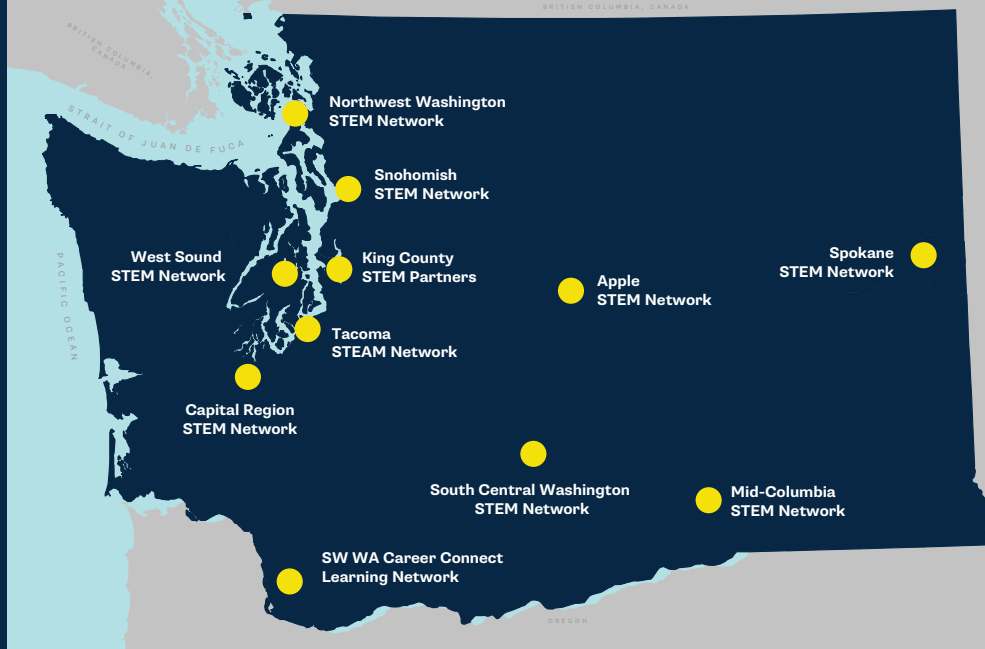


Washington STEM's Legislator of the Year Award is presented annually to members of the State Legislature who have demonstrated extraordinary leadership in advancing legislation and policies that promote excellence, innovation, and equity in STEM education for all Washington students, especially those furthest from opportunity. After a statewide nomination process, 2019 Legislator of Year awards were given to Representative Vandana Slatter (LD 48) and Representative Mike Steele (LD 12).

FINANCIALS



This financial statement is an excerpt of the full report audited by Clark Nuber, which is available at washingtonstem.org/financials.



Washington STEM invests in and works alongside a network of STEM partners that harness and employ STEM education best practices within their communities. These ten regional STEM Networks and King County STEM Partners are made up of education, business, and community leaders and provide access to the best STEM education, opportunities, and careers in their regions.

APPLE STEM NETWORK

The Apple STEM Network, in partnership with the Aerospace Joint Apprenticeship Committee and the Workforce Alliance, created the first manufacturing “Career Launch and Youth Apprenticeship” in Grant County.

CAPITAL REGION STEM NETWORK

The Capital STEAM Network and ESD 113, received a \$100,000 grant through the Employment Security Department to support expanding Career Connected Learning.

MID-COLUMBIA STEM NETWORK

The Mid-Columbia STEM Network, in support of strong cradle-to-career STEM education opportunities across the region, offered the STEM Like Me! suite of Career Connected Learning

programs to more than 6,000 students.

NORTHWEST WASHINGTON STEM NETWORK

The Northwest Washington STEM Network helped bring the Career Awareness program to over 1,400 middle school students. After completing the program, student interest in STEM careers increased from 34% to 83%.

SNOHOMISH STEM NETWORK

The Snohomish STEM Network hosted the Snohomish STEM Summit, which convened more than 150 key county leaders, reviewed indicators, and addressed career-connected learning and STEM opportunities to help close the skills gap for the future workforce.



Frontier Middle School students at the Museum of Flight - Apple STEM Network

SOUTH CENTRAL WASHINGTON STEM NETWORK

The South Central Washington STEM Network piloted the Math for Love curriculum at Blossoms Early Learning Center to promote a positive math mindset and establish a strong foundation in early math skills.

SPOKANE STEM NETWORK

In partnership with Spokane Community College and the Mead School District, the Spokane STEM Network helped develop 16 dual credit pathways and aligned programs in high-demand employment sectors for students to work towards their Associate of Applied Science degree while completing their high school diploma.

SOUTHWEST WASHINGTON CAREER CONNECT LEARNING NETWORK

The Southwest Washington STEM Network, in partnership with Shin- Etsu America, Clark College, and area school districts, developed a model career

pathway in Advanced Manufacturing in which students engaged in problem-based learning on modern manufacturing technology and experienced real-world internships that set them on a course to “earn and learn” in the endorsed Mechatronics Career Launch program.

TACOMA STEAM NETWORK

The Tacoma STEAM Network partnered and engaged with businesses to host Powering Up Educators externships for 30 educators who serve students of color. The externships increased educators’ knowledge of STEM-related careers and changes in today’s workforce.

WEST SOUND STEM NETWORK

The West Sound STEM Network partnered with higher education, industry members, Tribes, military, and non-profits to deliver 15+ STEM training opportunities for teachers, expanding their STEM knowledge and leadership skills.



In addition to working alongside our statewide STEM Network partners, we also work to partner with King County-based nonprofits like Zeno Math. The themes of healing, community support, and cultural inclusion echoed throughout the third annual Zeno Summer Institute, where educators, caregivers, and advocates gathered for two days to learn how to better support families of color in providing foundational math experiences for early learners.



Reading aloud with children is a joy of childhood, but we rarely view shared reading experiences as a time to open up the joy and wonder of mathematical thinking. Storytime STEM provides engaging activities for teachers, librarians, and parents to teach science, math, and engineering concepts through children's literature. They approach literature with a mathematical lens, or "mathematize" the story, so we can nurture children's mathematical identities, dispositions, and knowledge.