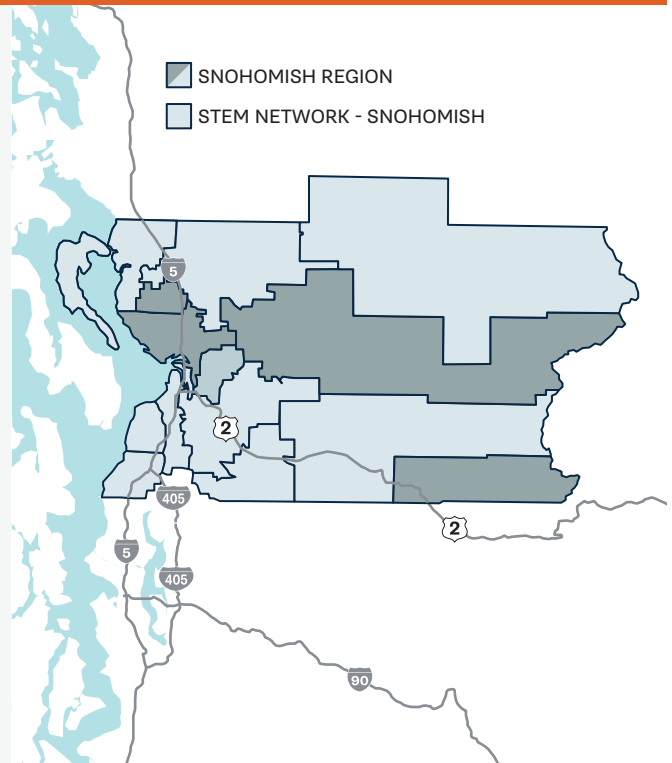


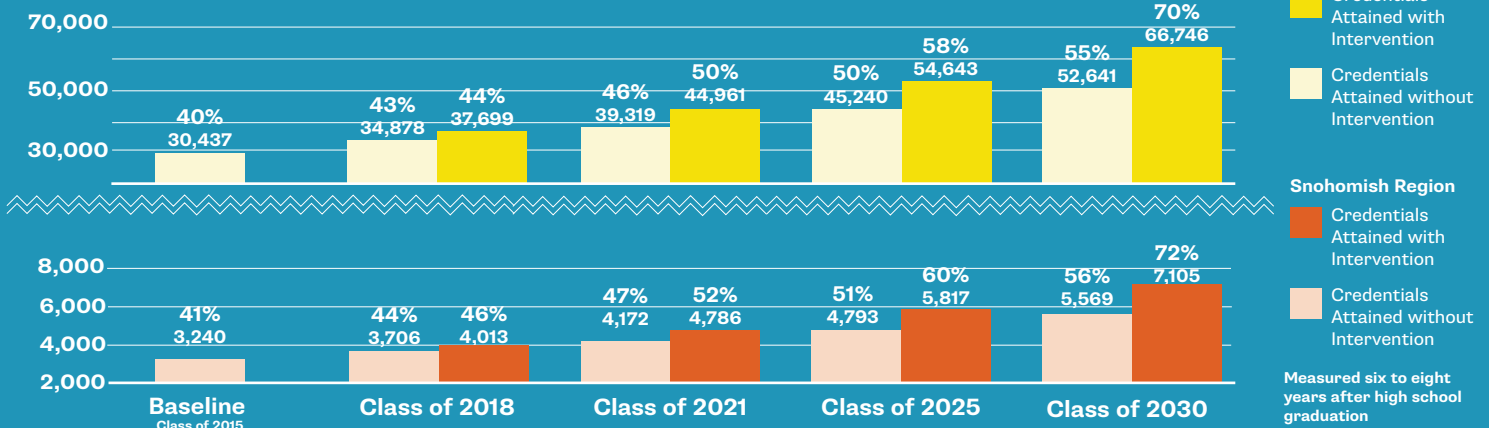


STEM BY THE NUMBERS: SNOHOMISH REGION

The Snohomish Region is home to growing information and technology, healthcare, engineering, and construction, spanning from Arlington to Lynnwood. The region is made up of 14 school districts, 10 of which are members of the Snohomish STEM Network. The Network's business, education, and community partners are working to close credential attainment gaps, especially for students of color and students from low-income families. They aim to increase the number of local students who become computer and IT professionals, construction and trades professionals, engineers, and healthcare professionals, which have 3,781 annual projected openings combined over the next five years.

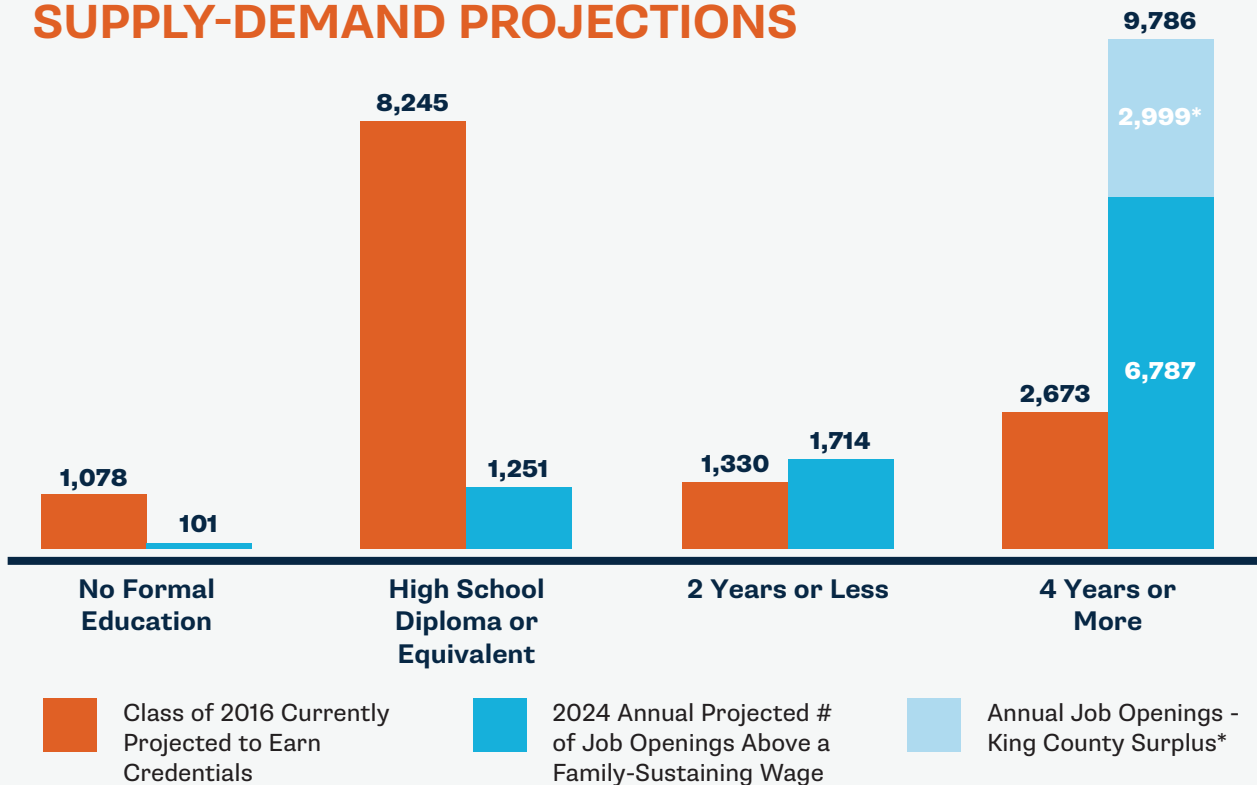


258 MORE CREDENTIALS PER YEAR = REGION ON TRACK



THE OPPORTUNITY: A STRONG DEMAND FOR STEM TALENT

SNOHOMISH REGION SUPPLY-DEMAND PROJECTIONS



By supporting more students to be on track to earn a high-demand credential, the Snohomish Region will ensure that up to 9,853 available family-sustaining jobs (those that pay a regionalized wage of \$41,000 or more a year) could be filled by local young adults.

*Over the next 12 years, there will be a surplus of jobs in King County compared to the number of new, local, credentialed individuals in King County. That means that if other regions throughout the state only attended to their own regional job openings, King County would be sorely under-supplied by Washington state-originating kids. This surplus represents a proportion of the surplus jobs that could be supplied by students from the Snohomish Region.



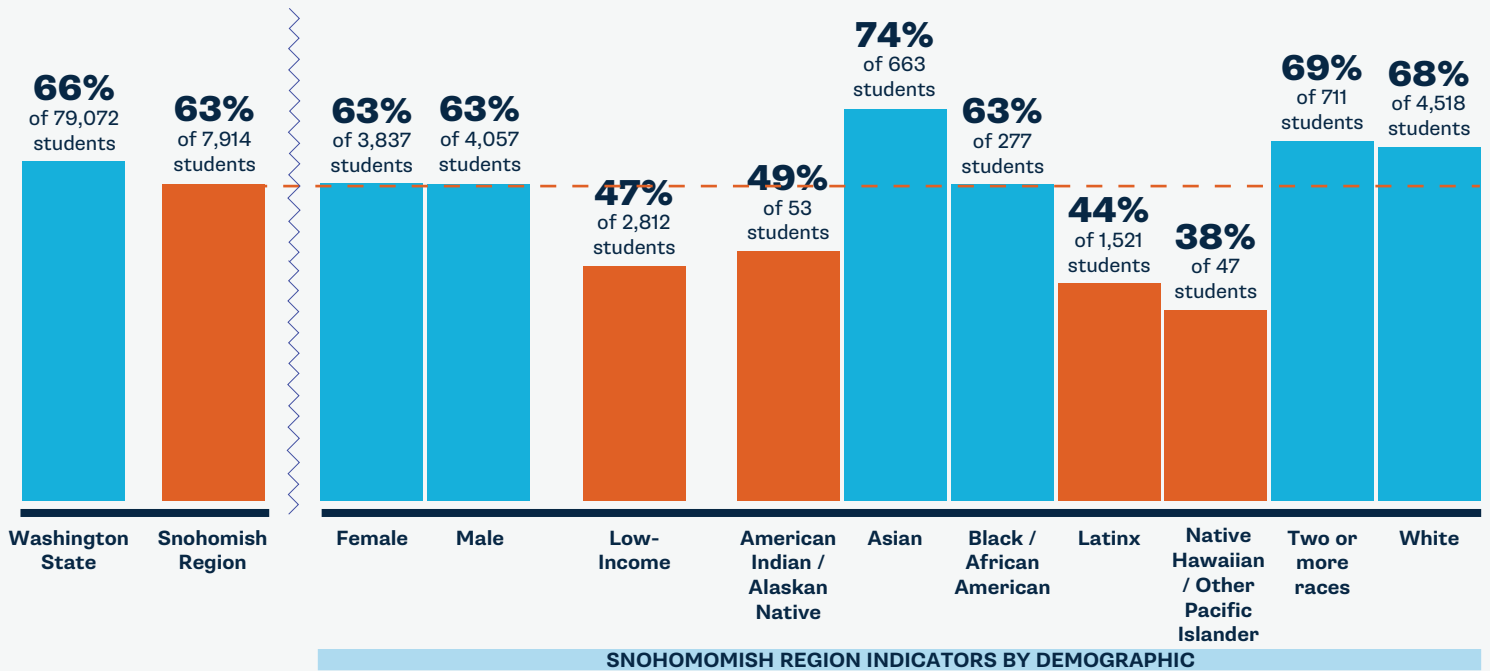
TEACHER EXTERNSHIPS BRING INDUSTRY EXPERIENCE DIRECTLY TO STUDENTS

The Washington Alliance for Better Schools (WABS) STEM Teacher Externship program gives local teachers the chance to gain valuable, hands-on professional experience through industry placements. Teacher Externs bring engaging, real-world STEM applications to their classrooms and help students understand career opportunities and pathways. Businesses such as the Boeing Company, Snohomish PUD, and SEA-LECT Plastics, also have a unique opportunity to help develop a qualified pipeline of future employees prepared to meet tomorrow's challenges.

SNOHOMISH REGION K-12 STEM INDICATORS BY DEMOGRAPHIC

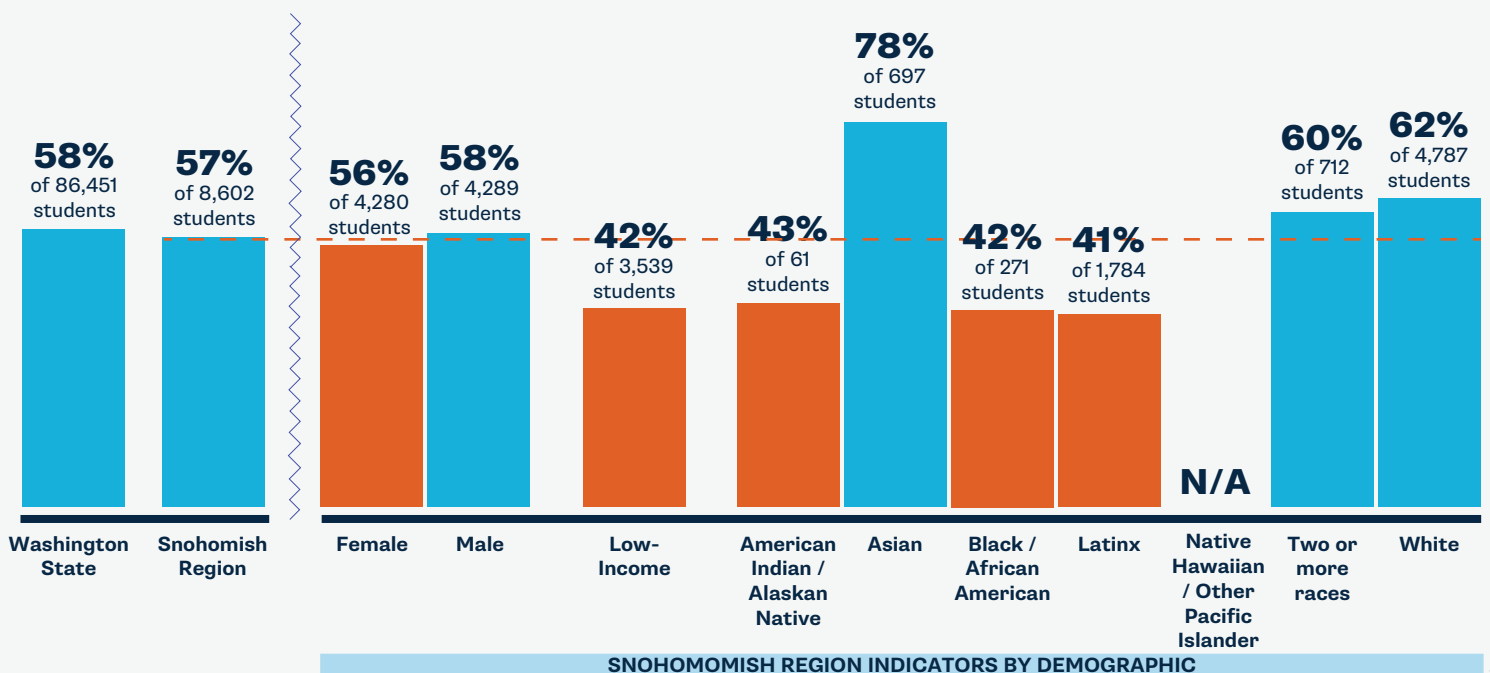
KINDERGARTEN MATH READY (2018)

63% of 7,914 Snohomish Region children entering kindergarten are math ready compared to **66% of 79,072** children statewide.



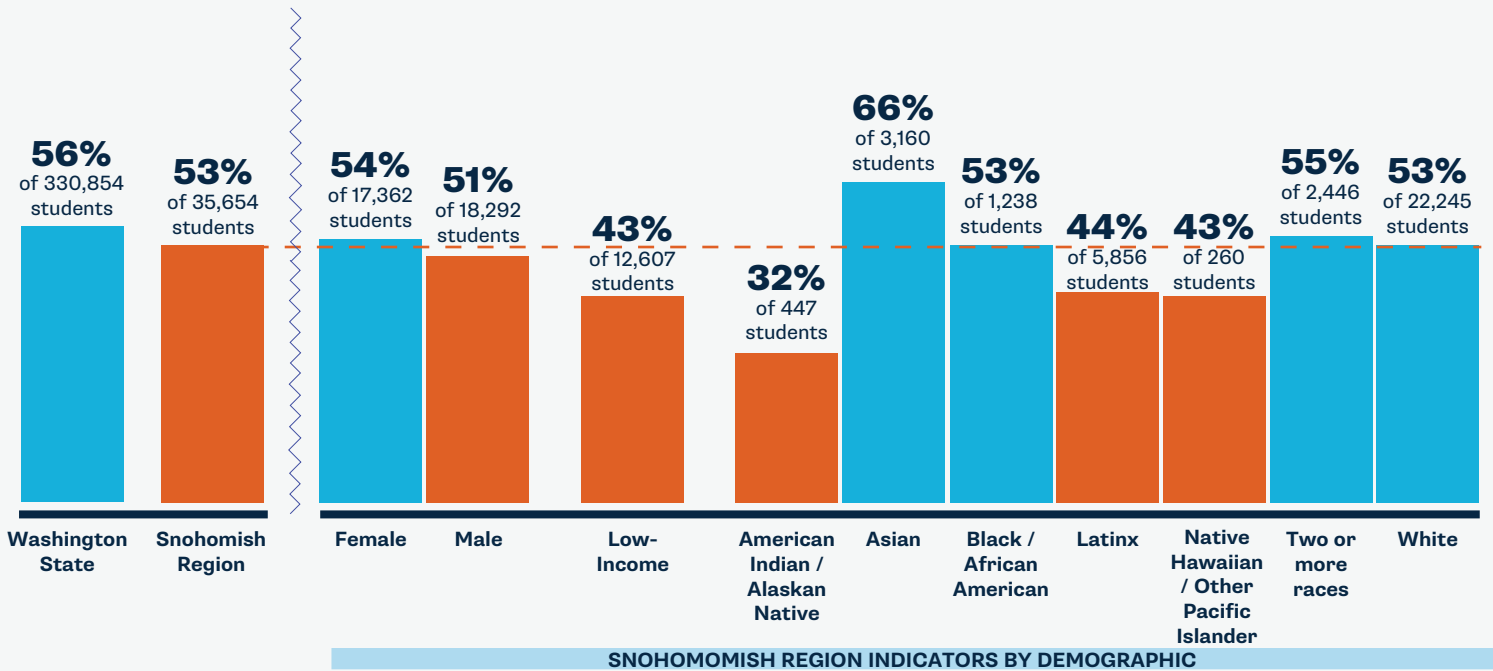
3RD GRADE MATH (2017)

57% of 8,602 of Snohomish Region third graders meet grade level math standards compared to **58% of 86,451** third graders statewide.



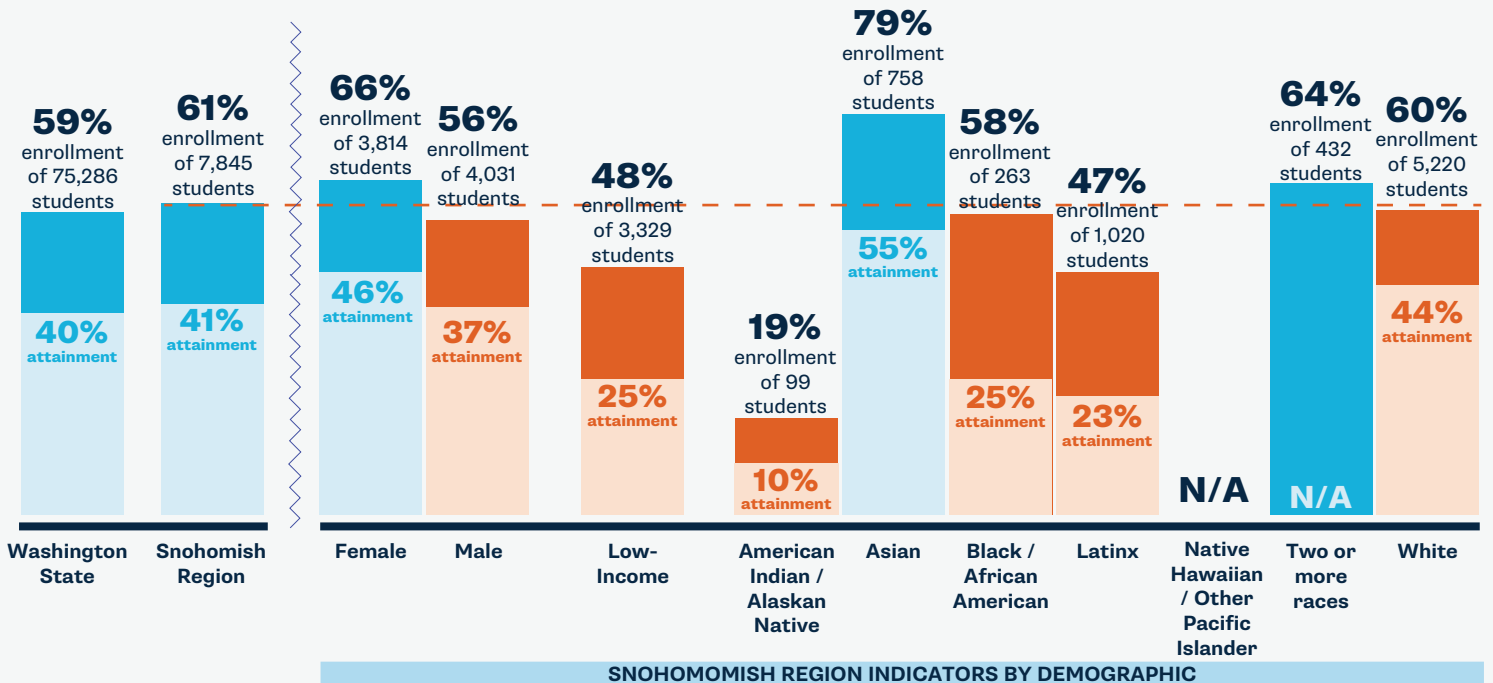
DUAL CREDIT (2017 9-12TH GRADERS)

53% of 35,654 Snohomish Region high schoolers complete at least one dual credit course compared to 56% of 330,854 youth statewide.



CREDENTIALIAL ENROLLMENT/ATTAINMENT

61% of 7,845 of the originating ninth graders in the Snohomish Region enroll in a postsecondary program and 41% of those originating ninth graders earn a credential by age 26.



Data citations and region-by-region analyses will be posted at www.washingtonstem.org/STEMbythenumbers.

For more information about early STEM and career pathways work in the Snohomish Region, contact Snohomish STEM Network Director Patrick Pierce, PatrickP@economicalliancesc.org.

SNOHOMISH REGION STEM INDICATORS

Ready for Kindergarten

While 63 percent of all Snohomish Region kids are math ready by kindergarten, high-quality early learning opportunities need to be more accessible to families of color and those that are lower-income to close math-readiness gaps.

TBD we are determining availability of high-quality early learning for families and supports for professionals in this region

63% of Snohomish Region children entering kindergarten are math ready

K-8 STEM Learning

Between kindergarten and third grade, math-readiness and skills gaps widen for many students, which is correlated with success in related areas of study. School districts need resources and assistance to remove barriers and create opportunities in STEM for all students.

TBD we are determining the STEM indicators for each school district in this region in partnership with LASER

57% of Snohomish Region third graders meet grade level math standards

Secondary Pathways

While students in the Snohomish Region are overall less likely to complete dual credit** courses than their peers across the state, students of color and low-income students experience reduced access to and completion of these courses compared to their peers.

TBD we are determining availability of dual credit courses and career pathways programs by type and subject area in this region

53% of Snohomish Region high schoolers complete at least one dual credit course

**Dual credit programs give students the opportunity to earn high school and college credit simultaneously. Completion of dual credit coursework is highly correlated with higher education enrollment and completion.

Credential Enrollment/Attainment

Of the originating ninth graders across the state, 59 percent enroll and 40 percent complete a credential. While Snohomish Region students enroll and complete at comparable rates, the region is working to expand credential pathways capacity to close opportunity gaps for key student groups.

TBD we are determining local higher education and career training program capacity in this region

61% of the originating ninth graders in the Snohomish Region enroll in a postsecondary program and 38 percent of those originating ninth graders earn a credential by age 26.



STEM by the Numbers is a series of regional reports which examines data that tells us about Washington students' access to credentials and family-sustaining jobs. Together with our partners, we are advocating for and developing regionalized, cross-sector, and longitudinal data. We highlight student outcomes above, and in future publications we will report on systems indicators, like high school course offerings and availability of STEM professional learning and supports.

Data citations and region-by-region analyses will be posted at www.washingtonstem.org/STEMbythenumbers.

For more information about early STEM and career pathways work in the Snohomish Region, contact Snohomish STEM Network Director Patrick Pierce, PatrickP@economicalliancesc.org.

REGIONAL TOP INDUSTRIES AND STEM JOBS

MEDICAL ASSISTANTS & NURSES

Annual # of Openings: 998

Credential: Certificate → Bachelor's

Average Regional Wage:
\$52,907 → \$83,796

CONSTRUCTION & TRADES PROFESSIONALS

Annual # of Openings: 1,316

Credential: Apprenticeship

Average Regional Wage: \$65,455

ENGINEERS

Annual # of Openings: 478

Credential: Bachelor's

Average Regional Wage: \$103,032

COMPUTER & IT PROFESSIONALS

Annual # of Openings: 665

Credential: Certificate → Bachelor's

Average Regional Wage:
\$60,141 → \$119,338

EVERETT STUDENTS LEARN SUSTAINABLE LANDSCAPING

Everett's Jackson High School Green Team participated in Puget Sound Starts at my School, a program offered by Snohomish Conservation District. Landscape architects showed students how to take a soil test at a degraded area on their campus. The soils test was one of many steps the students took to transform the heavily compacted area into a thriving, sustainable landscape. Students also measured the area and created a planting plan to scale, accounting for mature plant growth. They selected plants for year-round visual interest, considering the various bloom times and winter color. They also paid close attention to selecting plants that would provide seeds, berries, and flowers for native pollinators, birds, and other local wildlife. Over 750 students have participated in the program across the county, in nine schools. Students enjoy applying real-world skills to address stormwater issues at their school. They have the opportunity to go beyond textbooks to make a real and lasting impact in their community. Jackson High School science teacher Gail Walters commented on the process, "these programs really help the next generation become aware of problems and solutions that are present in our community."



By 2030, Washington STEM and our statewide partners aim to **triple the number of students** of color, students from low-income and rural families, and young women who are on track to earn high-demand credentials and enter family-sustaining careers in the state.