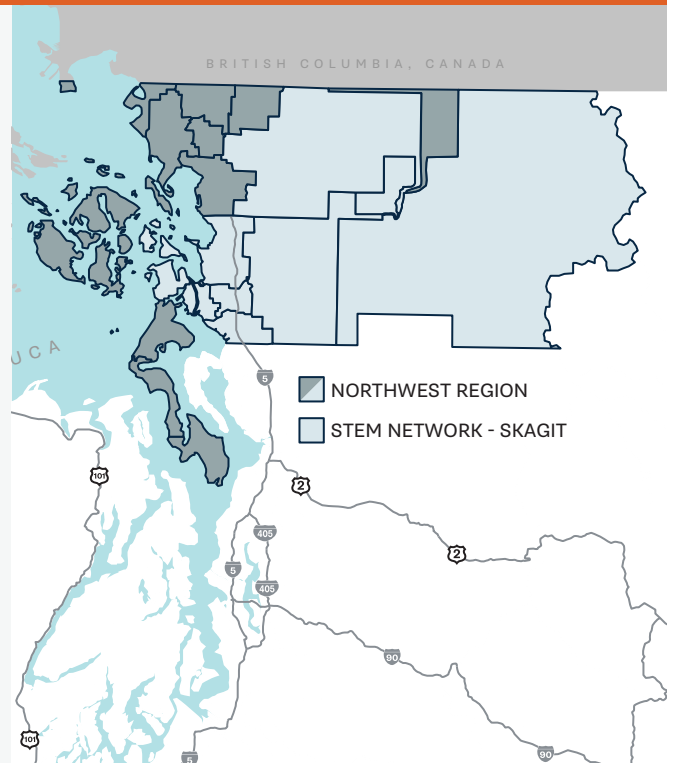




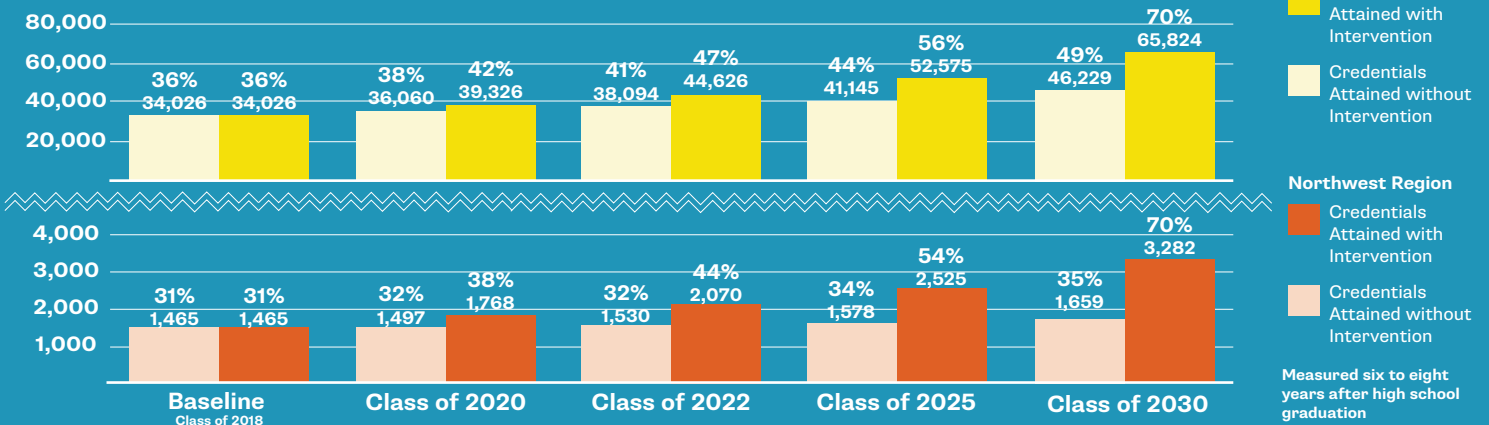
STEM BY THE NUMBERS: NORTHWEST REGION



The Northwest Region is home to growing maritime, healthcare, engineering, and advanced manufacturing industries, spanning from Bellingham to Mount Vernon. The region is made up of 22 school districts, eight of which are members of the Skagit STEM Network. The Network's business, education, and community partners are working to close credential attainment gaps, especially for students of color, young women, and students from low-income families. They aim to increase the number of local students who become engineers, healthcare professionals, and maritime/construction apprentices, which combined have 1,740 annual projected openings over the next five years.

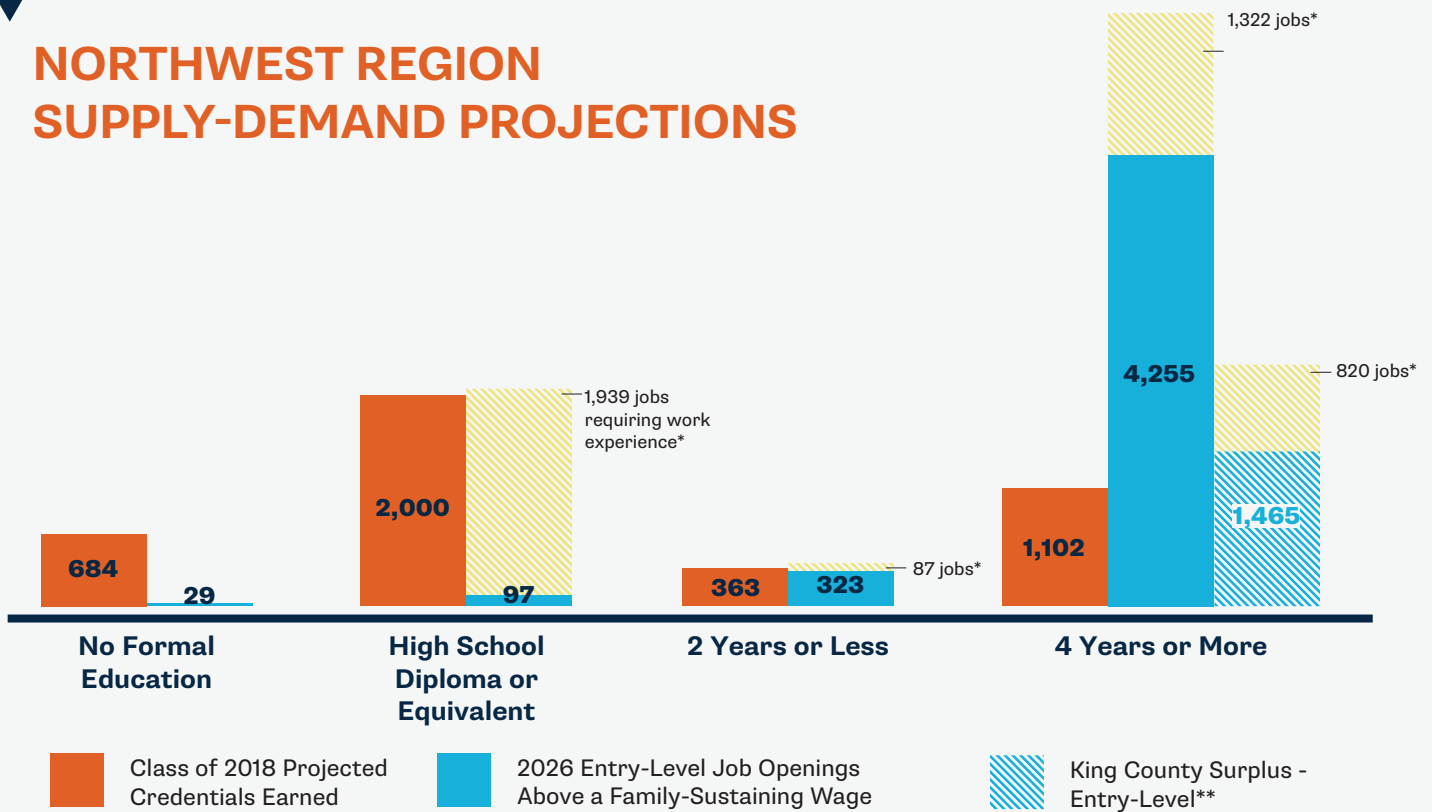


151 MORE CREDENTIALS PER YEAR = REGION ON TRACK



THE OPPORTUNITY: A STRONG DEMAND FOR STEM TALENT

NORTHWEST REGION SUPPLY-DEMAND PROJECTIONS



By supporting more students to be on track to earn a high-demand credential, the Skagit STEM Network and its partners will ensure that up to 4,704 family-sustaining*** (those that pay a regionalized wage of \$47,225 or more a year) are available to local young adults looking to start their career in the Northwest Region.

*Jobs requiring related work experience, and/or on-the-job training, would generally not be immediately available to high school graduates and be more competitive with a greater number of eligible applicants.

** The King County surplus represents a proportion of the surplus jobs that could be supplied by students from the Northwest Region. The surplus is the result of fewer King County originating students than annual projected job openings in King County.

*** Family-sustaining regionalized wage is defined as the full-time wage needed to support a household of 2 adults (1 working) and 1 child, using the MIT Living Wage Calculator.



CAREER CONNECTED LEARNING AT SCALE

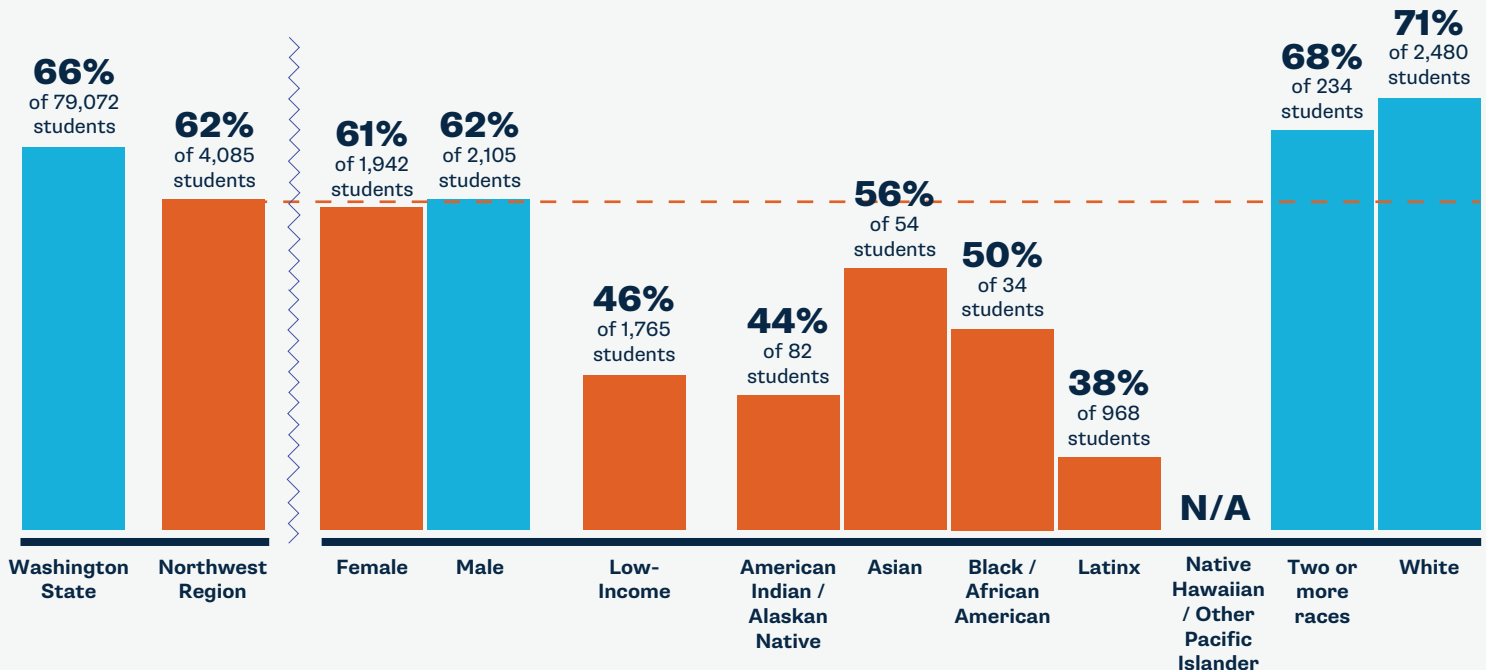
After a successful pilot year in 2017-18 of STEM Like Me! (SLM!), a career connected learning experience first developed by the Mid-Columbia STEM Network, the Skagit STEM Network scaled up its implementation of SLM! in 2018-19 to serve 850 students from all seven school districts in the region including every 7th-grader from Concrete, Conway, Sedro-Woolley, La Conner, and Anacortes. Most of the students who took part in SLM! took a survey before and after their experience, and their interest in pursuing a STEM career increased from 34% before to 83% after the program.

NORTHWEST REGION K-12 STEM INDICATORS BY DEMOGRAPHIC

KINDERGARTEN MATH READY (2018)

62% of 4,085 Northwest Region children entering kindergarten are math ready compared to **66% of 79,072** children statewide.

More than or equal to average of comparison
Less than average of comparison

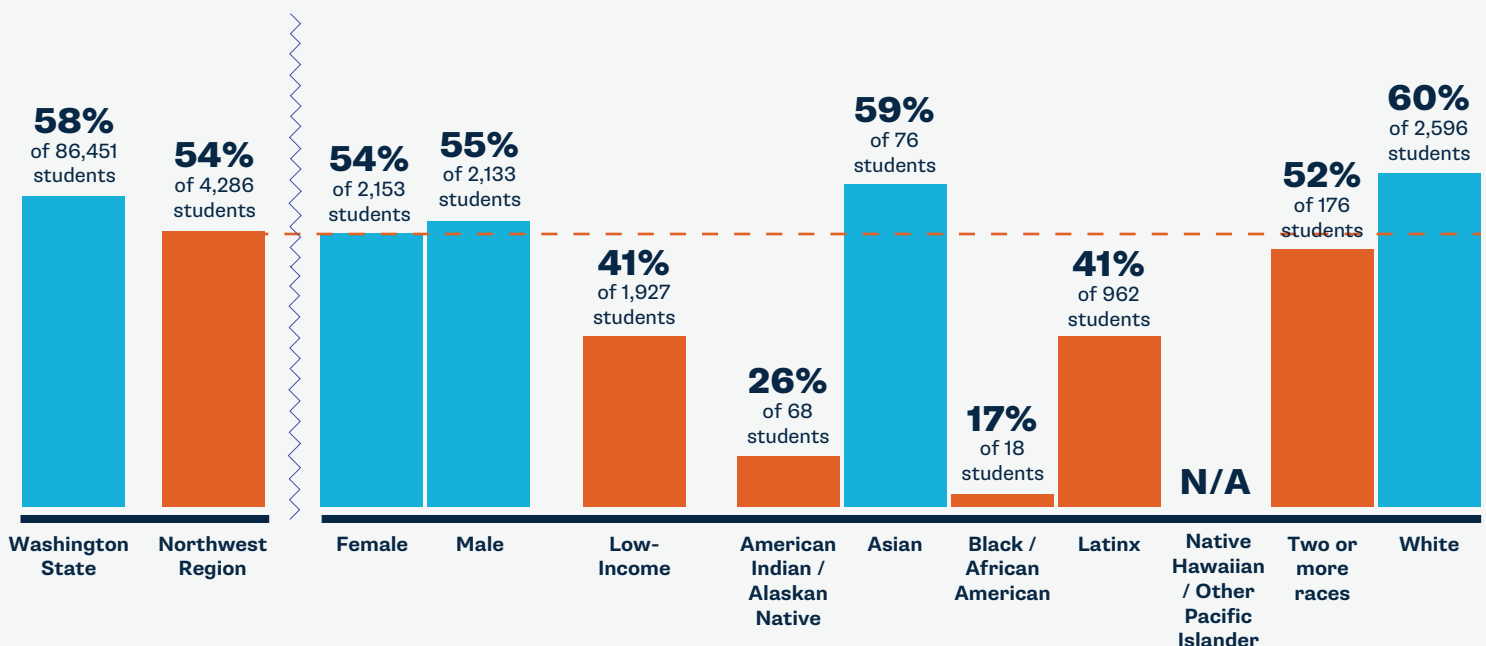


NORTHWEST REGION INDICATORS BY DEMOGRAPHIC

3RD GRADE MATH (2017)

54% of 4,286 of Northwest Region third graders meet grade level math standards compared to **58% of 86,451** third graders statewide.

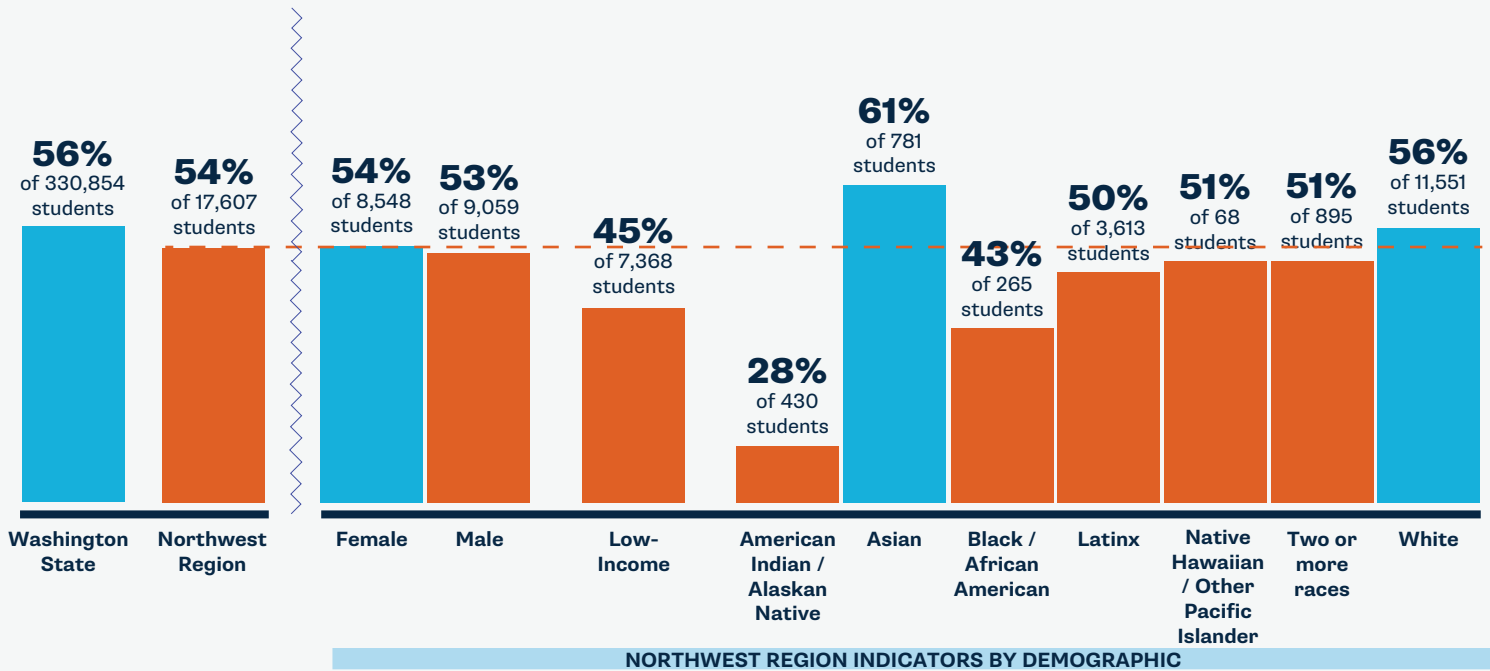
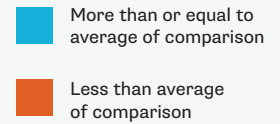
More than or equal to average of comparison
Less than average of comparison



NORTHWEST REGION INDICATORS BY DEMOGRAPHIC

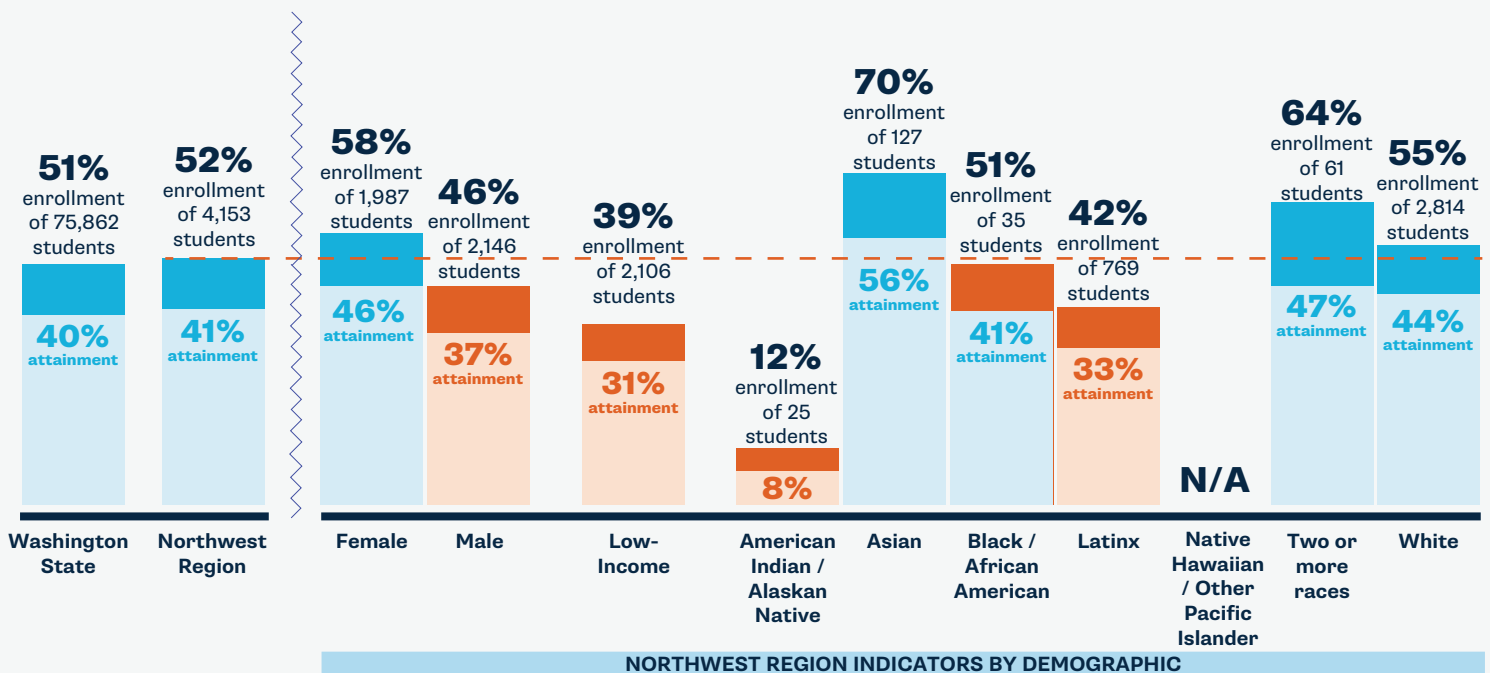
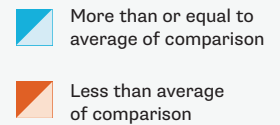
DUAL CREDIT (2017 9-12TH GRADERS)

54% of 17,607 Northwest Region high schoolers complete at least one dual credit course compared to 56% of 330,854 youth statewide.



CREDENTIAL ENROLLMENT/ATTAINMENT (CLASS OF 2016)

52% of 4,153 of the originating ninth graders in the Northwest 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 Northwest Region, contact Skagit STEM Network Director Michelle Judson, mjudson@swsd.k12.wa.us.

NORTHWEST REGION STEM INDICATORS

Ready for Kindergarten

While 62 percent of all Northwest 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

62% of Northwest Region children entering kindergarten are math ready

K-12 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

54% of Northwest Region third graders meet grade level math standards

Secondary Pathways

While students in the Northwest 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

54% of Northwest 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, 51 percent enroll and 40 percent complete a credential. While Northwest 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

52% of the originating ninth graders in the Northwest Region enroll in a postsecondary program and 41 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 Northwest Region, contact Skagit STEM Network Director Michelle Judson, mjudson@swsd.k12.wa.us.

REGIONAL TOP INDUSTRIES AND STEM JOBS

ADVANCED AGRICULTURE & MANUFACTURING PROFESSIONALS

Annual # of Openings: 452
Credential: Cert., AA, Apprenticeship, BS
Average Regional Wage: \$53,975 → \$89,042

ENGINEERS

Annual # of Openings: 162
Credential: Bachelor's
Average Regional Wage: \$88,525

MEDICAL ASSISTANTS

Annual # of Openings: 104
Credential: Certificate → Associate's
Average Regional Wage: \$69,873

CARPENTERS

(MARITIME & CONSTRUCTION)

Annual # of Openings: 502
Credential: Apprenticeship
Average Regional Wage: \$59,408

ELECTRICIANS

Annual # of Openings: 201
Credential: Associate's → Apprenticeship
Average Regional Wage: \$63,891

K-12 TEACHERS

Annual # of Openings: 344
Credential: Bachelor's
Average Regional Wage: \$64,709

CAREER PATHWAYS: WOMEN IN STEM

The Skagit STEM Network hosted 390 middle school and high school girls and young women from the surrounding region to connect them with STEM professionals in their backyard. The event created an interactive learning environment where students experienced hands on activities, listened to the career journeys of successful STEM professionals/students, and networked with Notable Women in STEM. Careers represented at the event included engineers, advanced manufacturing, healthcare, bio-technology, and life sciences, just to name a few. "Our goal was to create an engaging experience, where students could explore the endless possibilities of STEM careers available to them and hear inspiring personal career stories " said Michelle Judson, Executive Director of the Skagit STEM Network.



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.