

WA STEM's VISION & GOAL #5T



By 2030, Washington students will be career- and future-ready.

- 70% of Washington youth will earn credentials by age 26.
- 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 thrive in our innovation economy will triple.



STEM BY THE NUMBERS

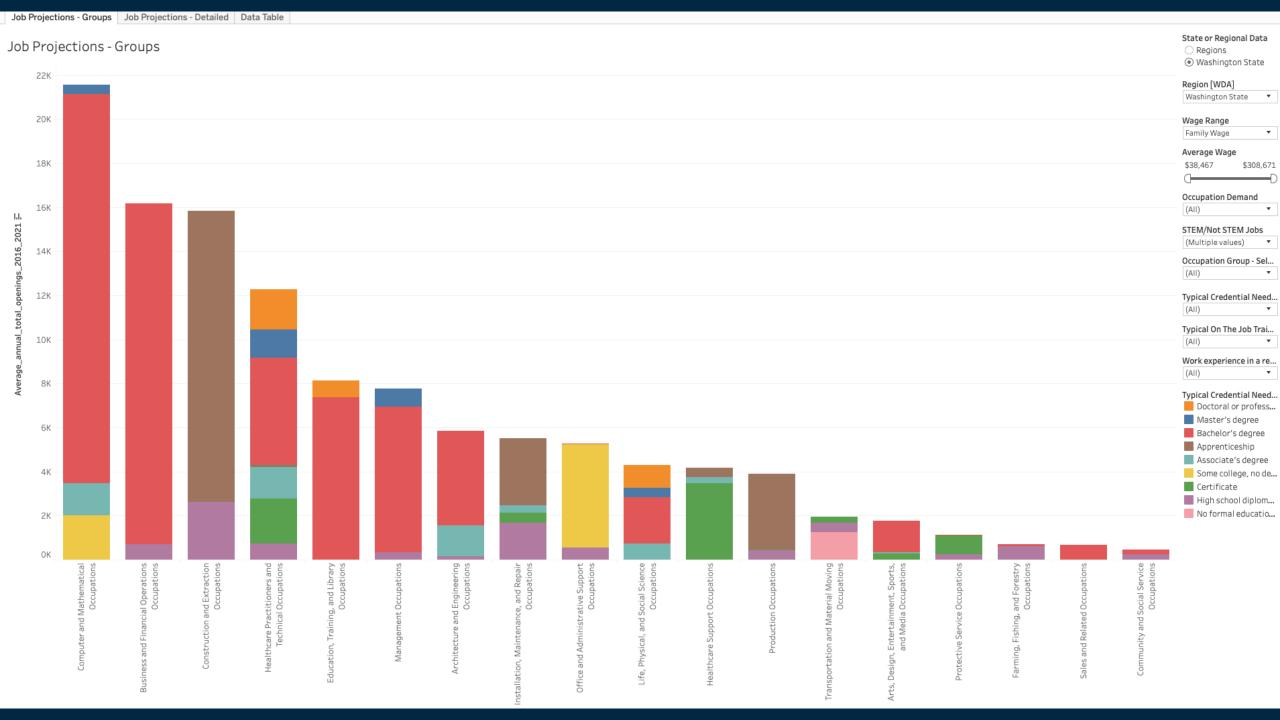
Big goal (70%) that is necessary to for our economy, necessary to close equity gaps, and necessary allow all students to have individual choice and opportunity *given what we know about the future of work*.

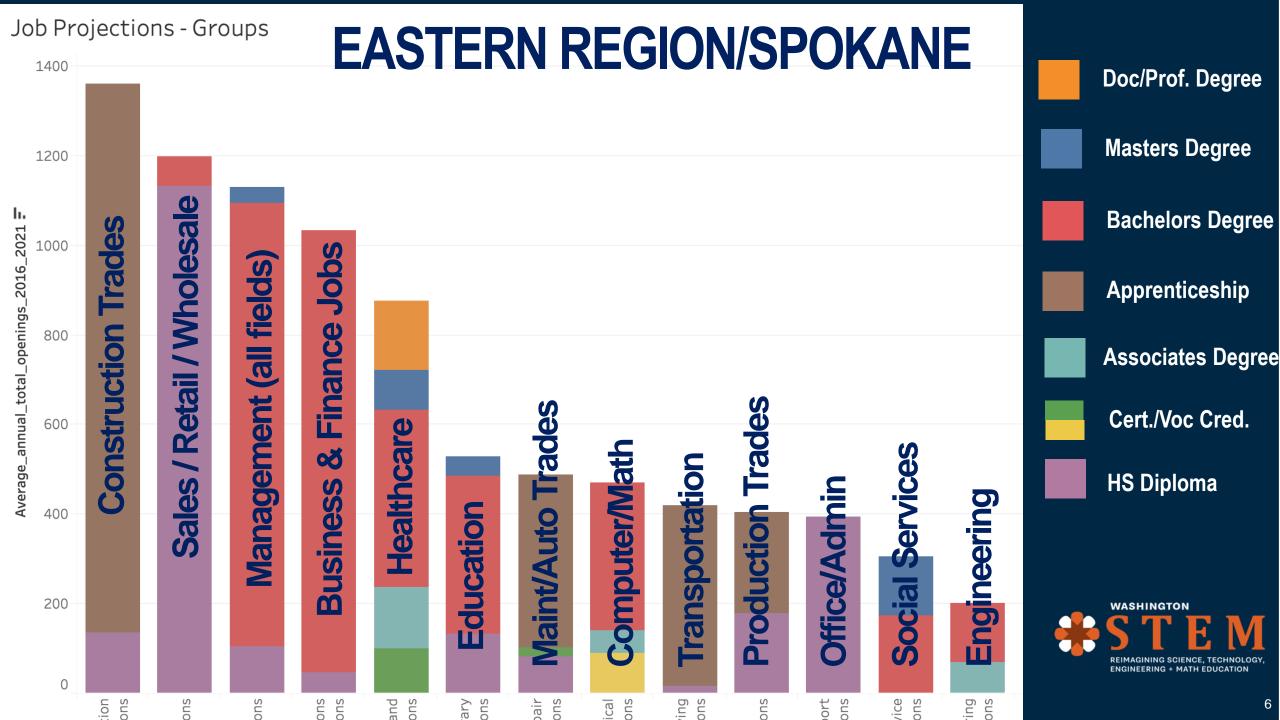
This goal is daunting, so we are doing four major things with data in order to future proof our kids:



STEM BY THE NUMBERS

- Getting & advocating for better data that tells us about <u>both</u> job projections and student outcomes across transitions
- 2. Breaking it down (focusing on the students historically furthest from opportunity) by region & demographic
- 3. "Backwards mathing and mapping" by region and by demographic to make highly-localized analyses
- 4. Supporting our partners in using this data to set goals, make plans, start new pathways, and chip away at the opportunity gaps in their own backyard





EASTERN REGION/SPOKANE



HEALTHCARE PROFESSIONAL

REGISTERED NURSE & MEDICAL ASSISTANT

Annual # of Openings: 1,347

Credential: Certificate → Bachelor's

Average Regional Wage: \$37,000 →\$79,875

K-12 TEACHER

Annual # of Openings: 604

Credential: Bachelor's

Average Regional Wage: \$60,700

BUSINESS & FINANCE PROFESSIONAL

Annual # of Openings: 362

Credential: Bachelor's

Average Regional Wage: \$64,000 → \$72,000

TRADES PROFESSIONAL

Annual # of Openings: 990

Credential: Apprenticeship

Average Regional Wage: \$55,190

INFORMATION TECHNOLOGY

Annual # of Openings: 374

Credential: Bachelor's

Average Regional Wage: \$78,304

ENGINEERING

Annual # of Openings: 200

Credential: Bachelor's

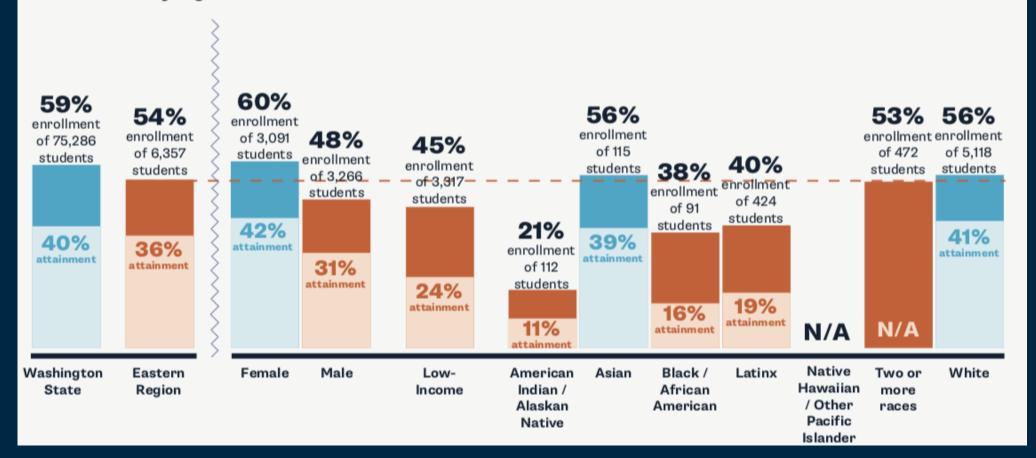
Average Regional Wage: \$80,000 - \$106,000

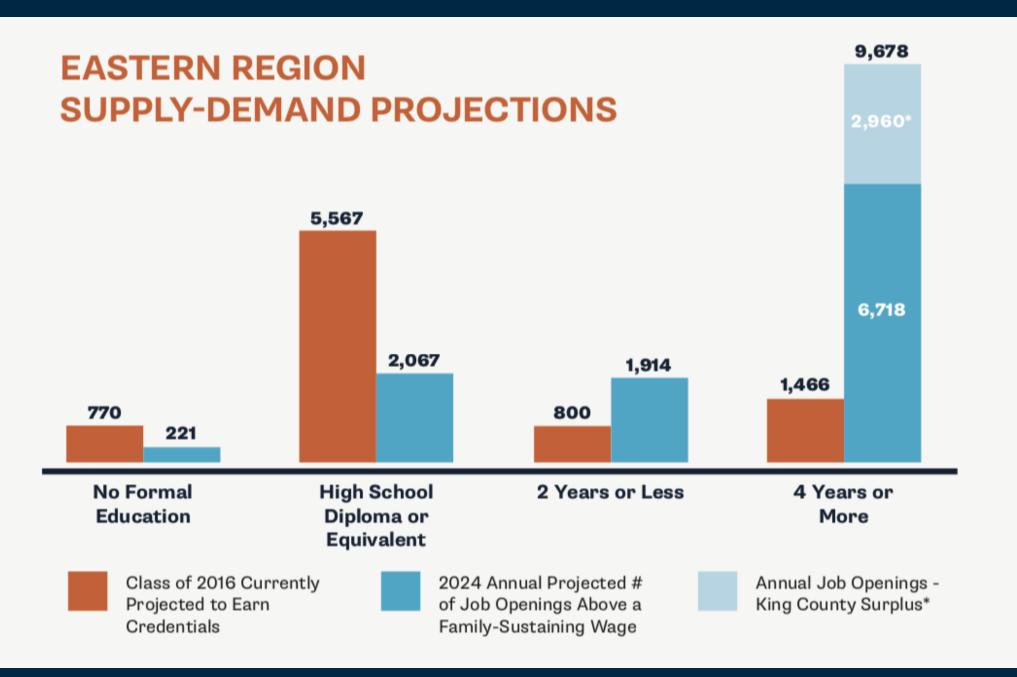


EASTERN REGION/SPOKANE

CREDENTIAL ENROLLMENT/ATTAINMENT

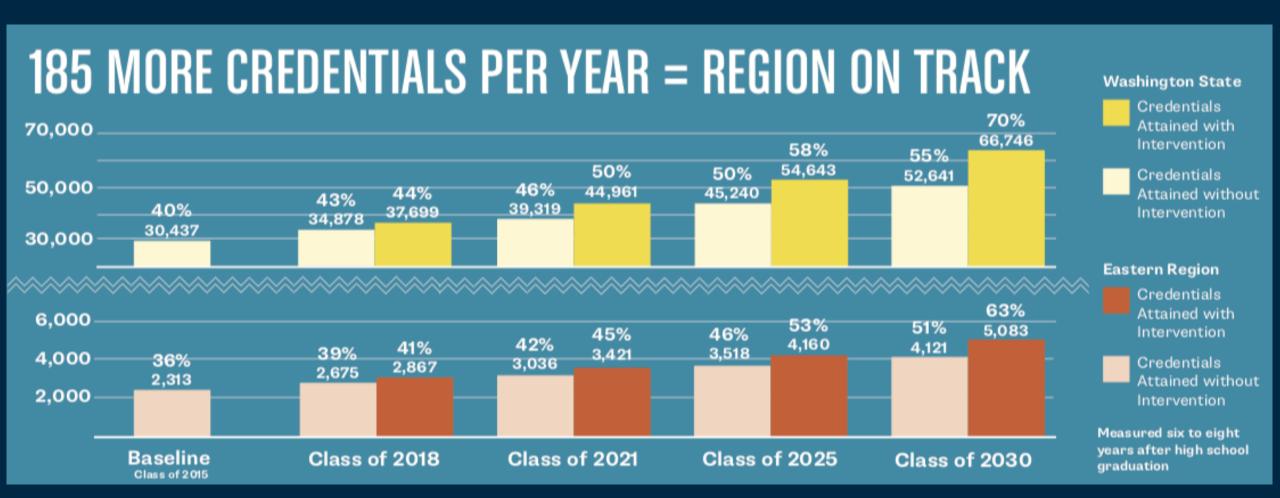
54% of 6,357 of the originating ninth graders in the Eastern Region enroll in a postsecondary program and **36%** of those originating ninth graders earn a credential by age 26.







EASTERN REGION/SPOKANE





CREDENTIAL OPPORTUNITIES BY REGION & INDUSTRY MATRIX (CORI)



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North Central										Region	∛≡ %	1
Supply and Demand Estimates for Family Wage Occupations in Demand										Eastern WA		
										Eastern WA (Spokane	e)	
Health Science Composite Sector in North Central Region All Remaining Sectors in North Central Region										King County		Ш
			De	Demand Supply			North Central		\vdash			
			Estimated	Other Job Openings						North Olympic		
			Annual	seeking same	Credentials	Supply			Supply	Northwest		
SOC Code	Top Occupations	Typical Credential Needed	Openings	credential (s)	Awarded	Shortage	SOC Code	Top Occupations	Shortage	Pierce County		
		High school diploma or								,	==	
43-6013	Medical Secretaries	equivalent	42	20	-	(62)	43-9061	Office Clerks, General	(268)	Snohomish County		-
	Adodied and Health Cont.	Death deade de					25 2222	Middle School Teachers, Except Special and	/2.5	South Central		
11-9111	Medical and Health Services Managers	Bachelor's degree	32	15	-	(47)	25-2022	Career/Technical Education	(217)	South Olympic		
31-9091	Dental Assistants	Postsecondary nondegree award	42	_		(42)	25-2021	Elementary School Teachers, Except Special Education	(155)	Soumeasi		
31-9091	Derital Assistants	High school diploma or	42		_	(42)	23-2021	Manufacturing, Except Technical and Scientific	(133)	Composite Sector	%≡ %	\Box
29-2052	Pharmacy Technicians	equivalent	27	_	_	(27)	41-4012	Products	(126)	Arts, A/V Technology		
	,								` '			
29-1071	Physician Assistants	Master's degree	12	10	-	(22)	13-2011	Accountants and Auditors	(79)	Business Managemer	nt and	
		Doctoral or professional								Education and Trainir	ng	
29-1123	Physical Therapists	degree	14	-	-	(14)	39-9031	Fitness Trainers and Aerobics Instructors	(70)	Finance		1
		Doctoral or professional								Health Science		
29-1051	Pharmacists	degree	12	(0)	-	(12)	41-3021	Insurance Sales Agents	(70)	Hospitality and Touri	sm.	\vdash
29-2041	Emergency Medical Technicians and Paramedics	Postsecondary nondegree award	12			(12)	11-9141	Property, Real Estate, and Community Association Managers	(66)			
29-2041	Dental Hygienists	Associate's degree	10			(10)	41-9022	Real Estate Sales Agents	(66)	Human Services		\vdash
	Health Technologists and Technicians, All	Postsecondary nondegree	10			(10)	41-3022	First-Line Supervisors of Non-Retail Sales	(00)	Information Technology		
29-2099	Other	award	7	0	_	(7)	41-1012	Workers	(59)	Law, Public Safety, Corrections,		
										Life Sciences		
29-1127	Speech-Language Pathologists	Master's degree	6	-	-	(6)	15-1151	Computer User Support Specialists	(37)	Manufacturing/Adva	Manufacturing/Advanced Mfg	
29-2081	Opticians, Dispensing	Apprenticeship	6	-	-	(6)	11-3031	Financial Managers	(37)	Marketing		1
		Doctoral or professional	_			<u>, </u>		L	40	Port		
29-1021	Dentists, General	degree	5	-	-	(5)	21-1093	Social and Human Service Assistants	(33)			+
29-1141	Registered Nurses	Bachelor's degree	154	5	66	(93)	25-2032	Career/Technical Education Teachers, Secondary School	(31)			
29-1141	negistered redises	Postsecondary nondegree	154	3	- 00	(93)	23-2032	Secondary School	(31)			+
21 0002	Madical Assistants	award	70	24	го	/ce\	21 0011	Maccago Thoropicts	/211			
	Supply Shortages 4											

NORTH CENTRAL REGION PROJECT

- Anecdotal information about innovation & automation in Agriculture and Manufacturing
- Concern that these pending changes are not captured in ESD or local economist data
- Potential for thousands of displaced workers as well as a lack of skilled computer trained workers
- PhD student regional project



THANKS!

- 1. Jenée Myers Twitchell: jenee@washingtonstem.org
- 2. Labor Market Dashboard & STEM by the Numbers: washingtonstem.org/STEMbytheNumbers
- 3. CORI Matrix (by request to email above + get invited to our CORI overview webinar *this* Wed. April 3, 4-5pm [recorded])

