



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

70%

triple.





What gets measured, gets done

WA State Measurement Vision: <u>transparent</u>, <u>accessible</u>, and <u>relevant</u> communication of *disaggregated* student outcomes and progress toward *cross-sector* goals that aim to close equity gaps and to prepare all WA students for their futures

- Examples of cross-sector goals:
 - 70% credential attainment among adults (WSAC) or among K-12 originators by the HS Class of 2030 (WRT/P4L, WA STEM)
 - 60% "career launch" experience completion by HS Class of 2030 (Career Connect WA)

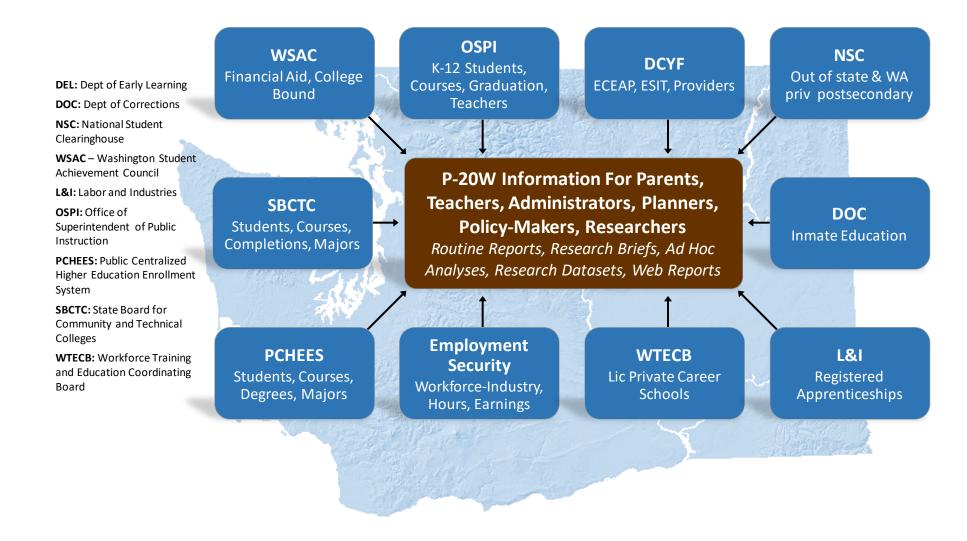
What We Need to Measure

- Problem: job openings, talent & credential shortages, equity imperative
- Outputs: Work-based programming (career connected learning; career awareness, career exploration, career launch)
- Student/adult **outcomes** from:
 - K-12 (including programs and experiences),
 - Into higher ed/credentials,
 - into the workforce (at least 5 years out),
 - along lines of equity



- Workforce Training & Education Coordinating Board
 - Career Bridge
- Washington Student Achievement Council
 - Adult Reengagement Portal
- Employment Security Department
 - High School and Beyond Planning (HSBP) Tool
- Education Research Data Center
 - P20 Database (P20 Identifier)
- Office of Superintendent of Public Instruction
 - HSBP + Career & Technical Education planning data
- State Board of Community & Technical Colleges
 - Career Launch Program Endorsement

Current Data Inputs (P-20 Identifier for All)



HISTORY OF 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.

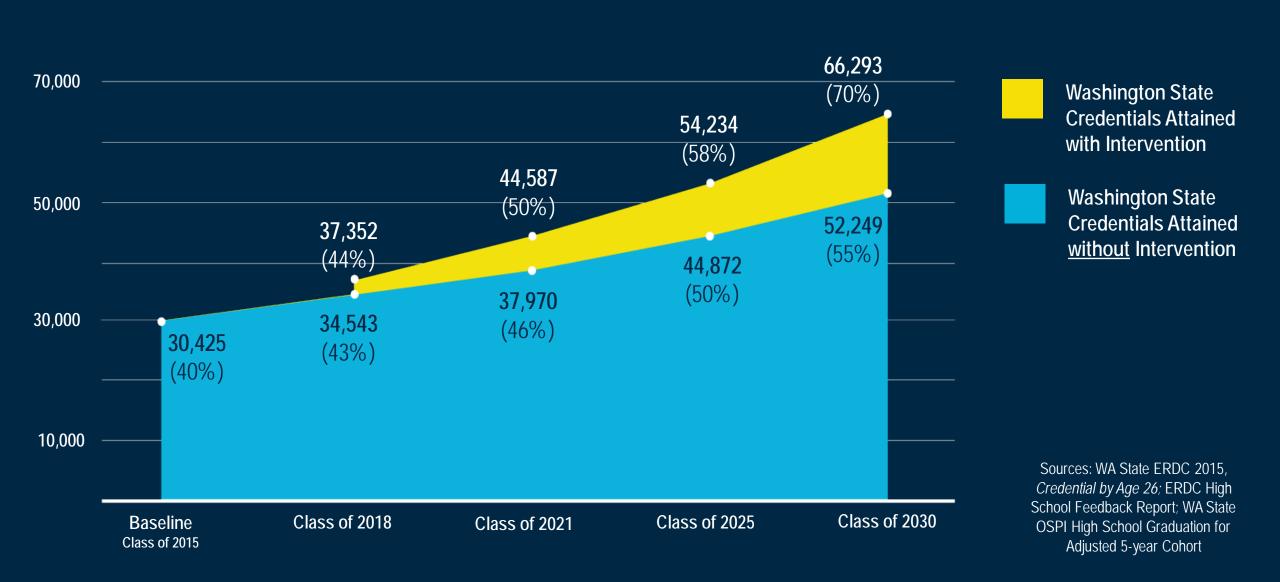
This goal is daunting, so we are doing four major things to support measurement of career connected learning/work-based learning outputs and outcomes:



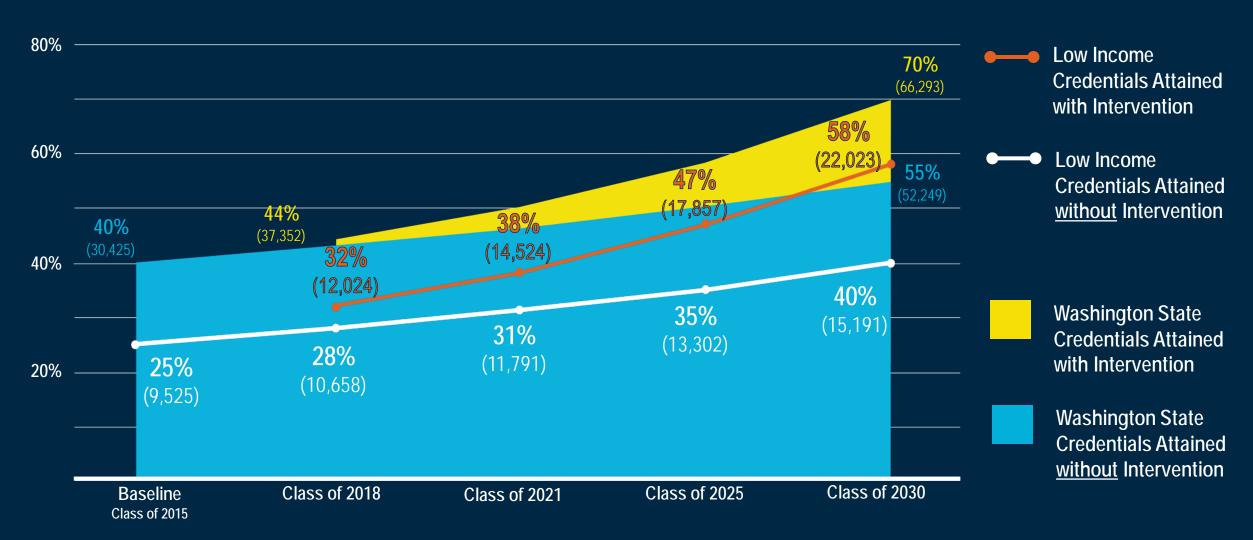
WASTEM'S ROLE IN SUPPORTING PARTNERS

- 1. Getting & advocating for better data that tells us about 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

PROJECTED CRED. ATTAINMENT V. WA STEM GOAL

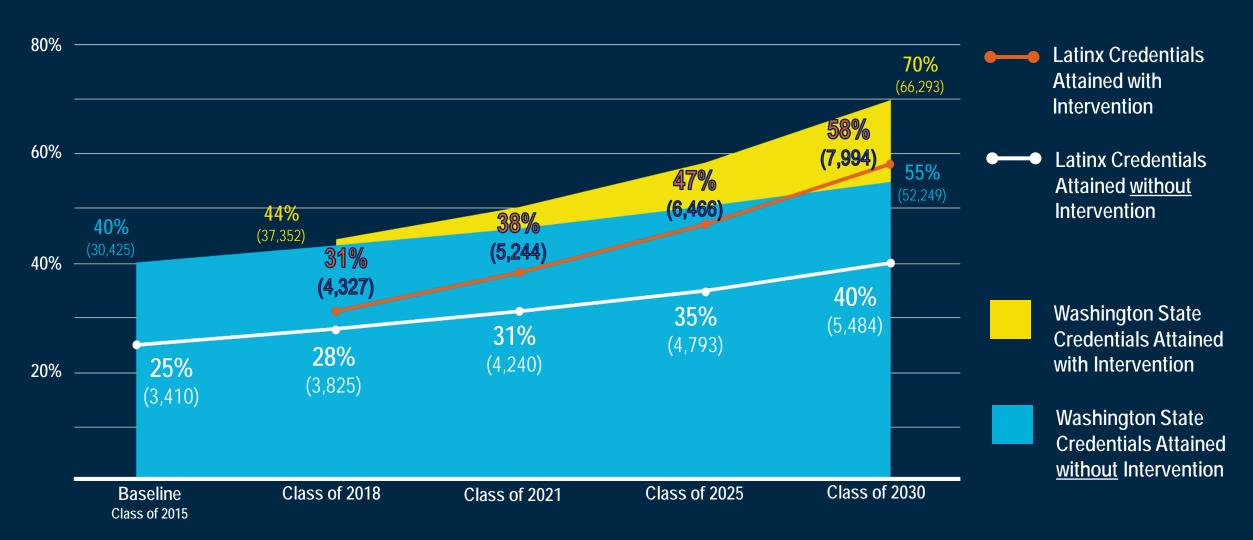


LOW INCOME

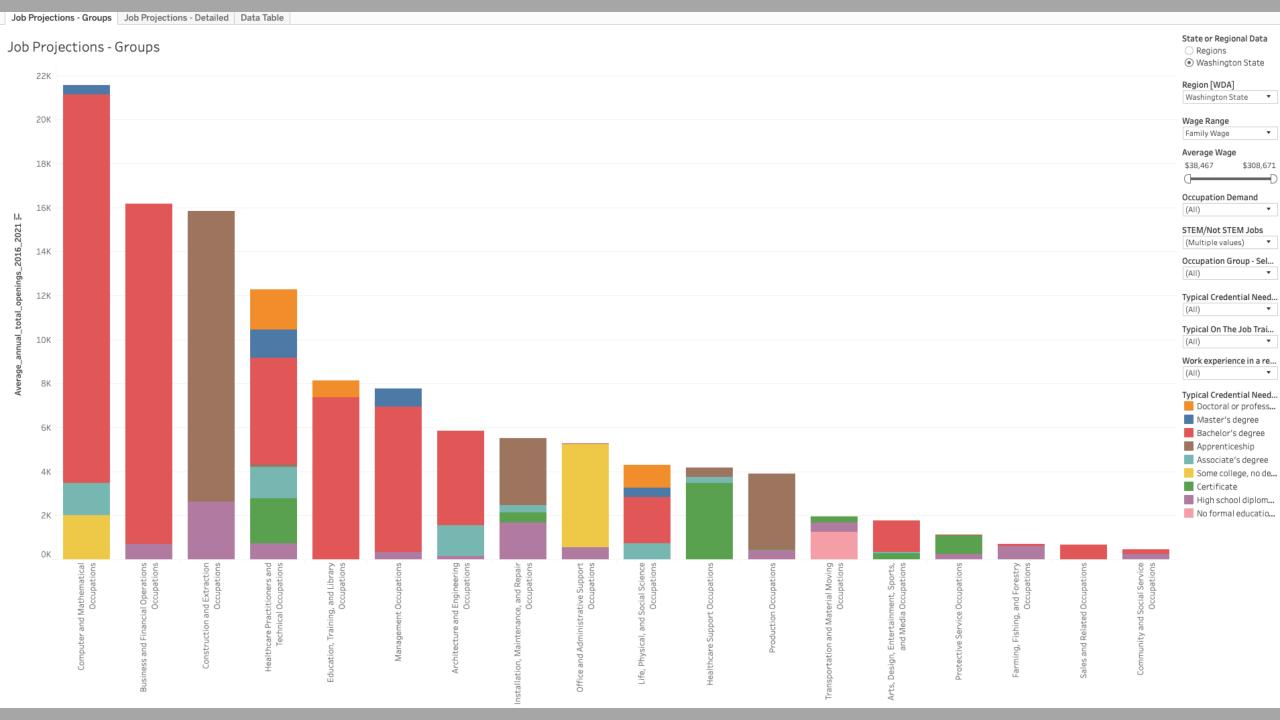


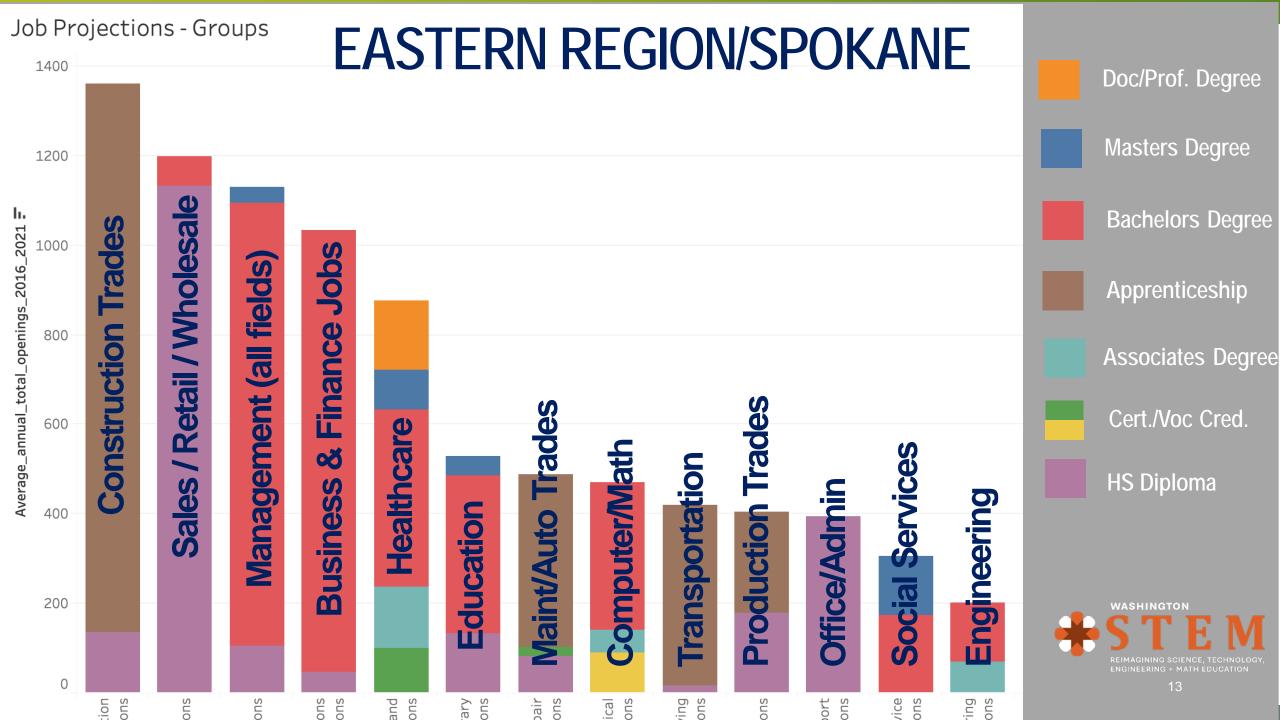
Sources: WA State ERDC 2015, Credential by Age 26; ERDC High School Feedback Report; WA State OSPI High School Graduation for Adjusted 5-year Cohort

LATINX CREDENTIAL ATTAINMENT



Sources: WA State ERDC 2015, Credential by Age 26; ERDC High School Feedback Report; WA State OSPI High School Graduation for Adjusted 5-year Cohort





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

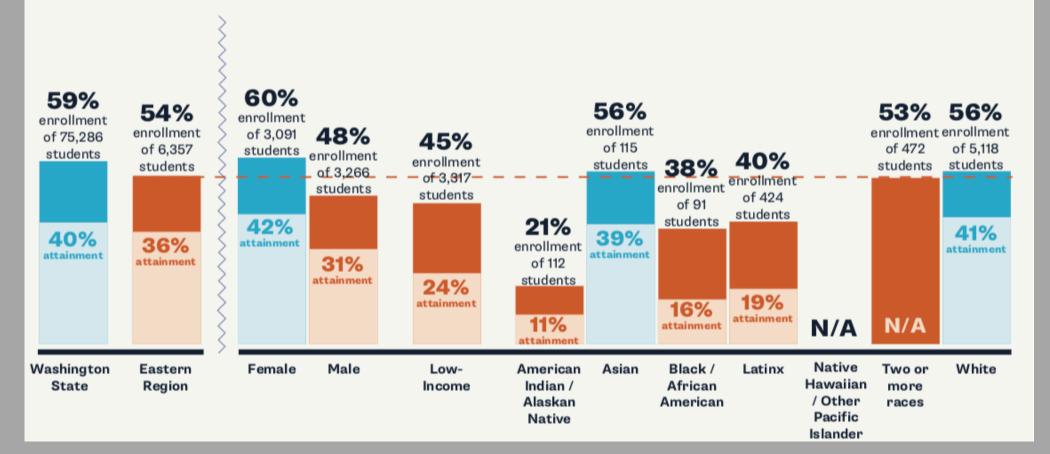
Average Regional Wage: \$80,000 - \$106,000

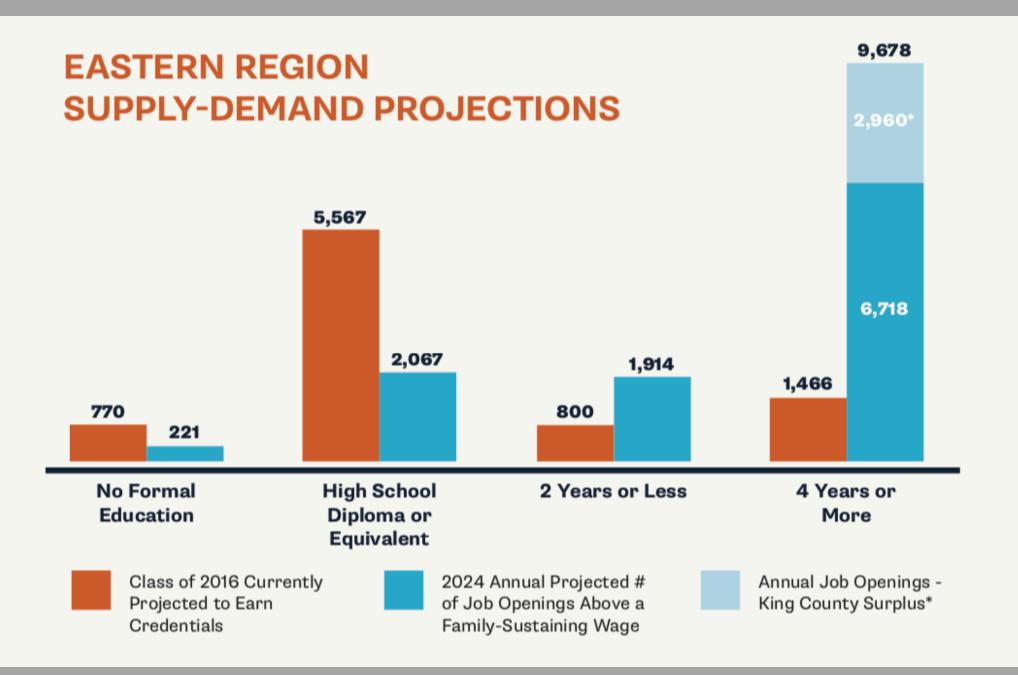


EASTERN REGION/SPOKANE

CREDENTIAL ENROLLMENT/ATTAINMENT

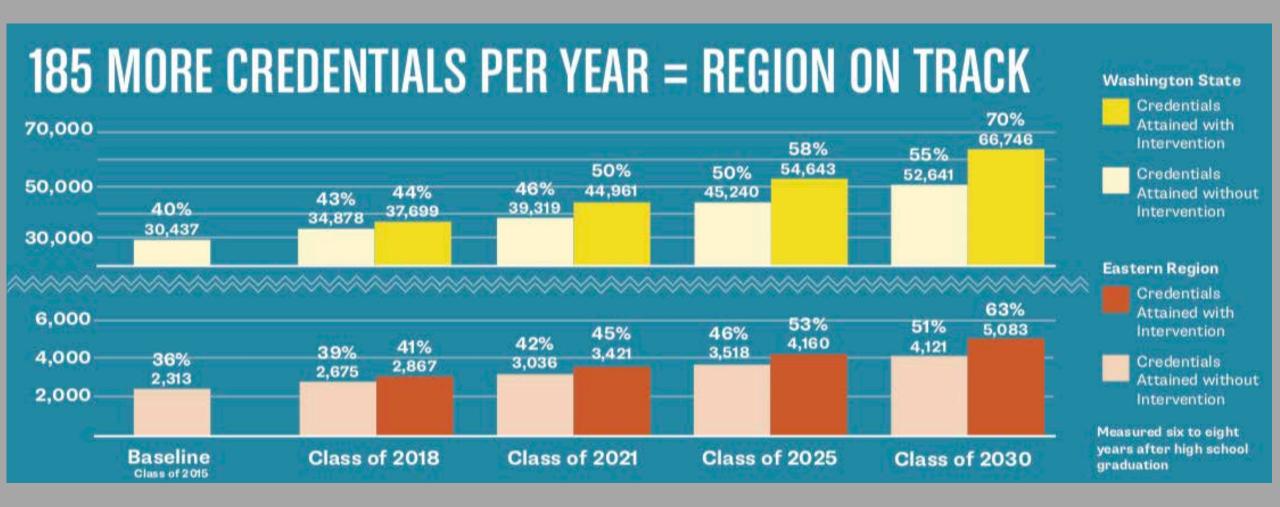
54% of 6,357 of the originating ninth graders in the Eastern Region enroll in a postsecondary program and **36%** of those originating ninth graders earn a credential by age 26.







EASTERN REGION/SPOKANE





CREDENTIAL OPPORTUNITIES BY REGION & INDUSTRY MATRIX (CORI)



North Central										Region		
		Supply and Demand Es	timates for	Family Wage C	Occupations	in Demand				Eastern WA		
										Eastern WA (Spo	kane)	
Health Science Composite Sector in North Central Region							All Remaining Sectors in North Central Region			King County		
			Demand		Supply					North Central		
			Estimated	Other Job Openings						North Olympic		
oc cada	Top Occupations	Typical Credential Needed	Annual Openings	seeking same credential (s)	Credentials Awarded	Supply Shortage	soc codo	Top Occupations	Supply Shortage	Northwest		
oc code	Top Occupations	High school diploma or	Openings	credential (s)	Awarded	Snortage	SOC Code	Top Occupations	Snortage	Pierce County		
3-6013	Medical Secretaries	equivalent	42	20	_	(62)	43-9061	Office Clerks, General	(268)	Snohomish Cour	nty	
1.0111	Madical and Harlin Control Manager	Dealested decree	22	45		(47)	25 2022	Middle School Teachers, Except Special and	(247)	South Central		
.1-9111	Medical and Health Services Managers	Bachelor's degree Postsecondary nondegree	32	15	-	(47)	25-2022	Career/Technical Education Elementary School Teachers, Except Special	(217)	South Olympic		
31-9091	Dental Assistants	award	42		_	(42)	25-2021	Education	(155)	Southeast		
		High school diploma or						Manufacturing, Except Technical and Scientific		Composite Sector	ξ≡	
9-2052	Pharmacy Technicians	equivalent	27	-	-	(27)	41-4012	Products	(126)	Arts, A/V Technol	ogy and	
29-1071	Physician Assistants	Master's degree	12	10	_	(22)	13-2011	Accountants and Auditors	(79)	Business Manage	ement and	
		Doctoral or professional				,,			(/	Education and Tr	aining	
29-1123	Physical Therapists	degree	14	-	-	(14)	39-9031	Fitness Trainers and Aerobics Instructors	(70)	Finance		
		Doctoral or professional		(0)		4.50			(==)	Health Science		
9-1051	Pharmacists Emergency Medical Technicians and	degree Postsecondary nondegree	12	(0)	-	(12)	41-3021	Insurance Sales Agents Property, Real Estate, and Community	(70)	Hospitality and T	ourism	
29-2041	Paramedics	award	12	_	_	(12)	11-9141	Association Managers	(66)	Human Services		
29-2021	Dental Hygienists	Associate's degree	10	-	-	(10)	41-9022	Real Estate Sales Agents	(66)	Information Technology		
	Health Technologists and Technicians, All	Postsecondary nondegree						First-Line Supervisors of Non-Retail Sales				
29-2099	Other	award	7	0	-	(7)	41-1012	Workers	(59)	Law, Public Safet	y, Corrections,	
						4.00			(0-1)	Life Sciences		
29-1127	Speech-Language Pathologists	Master's degree	6	-	-	(6)	15-1151	Computer User Support Specialists	(37)	Manufacturing/A	dvanced Mfg	
9-2081	Opticians, Dispensing	Apprenticeship	6	-	-	(6)	11-3031	Financial Managers	(37)	Marketing	Marketing	
		Doctoral or professional								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)			
		Postsecondary nondegree			- 30	(22)			(/			

LINKS FOR EACH TOOL:

- Labor Market Dashboard: washingtonstem.org/STEMbytheNumbers
- Credential Production Visual: https://education.uw.edu/faculty-and- <u>research/washingtonpathways/state-credential-production</u>
- 3. CORI Source Files: washingtonstem.box.com/s/66kehdh31t7hx5t7hti5s5lupwwmlhf0
- 4. CORI Tool: washingtonstem.box.com/s/5c7jigeaps1t96q0o511otgkzo9xgs12



FORTHCOMING WORK:

Landscape of opportunities/programming (systems support & equity of access use case) & pathway mapping tool (student/school use case)

- Regional job openings, salary, and credentials required
- Location and capacity of credentialing programs
- Middle school and high school pathway availability
- Internships, career fairs, and other school/community-based exposure



FORTHCOMING WORK:

Tracking work-based learning/career connected learning program offerings & participation (along lines of equity)

- Apprenticeships & pre-apprenticeships
- Higher education credentials with work-based learning
- Career & Technical Education participation & concentration
- Work-based learning courses
- Internships
- Career fairs
- High school & beyond plans ()

