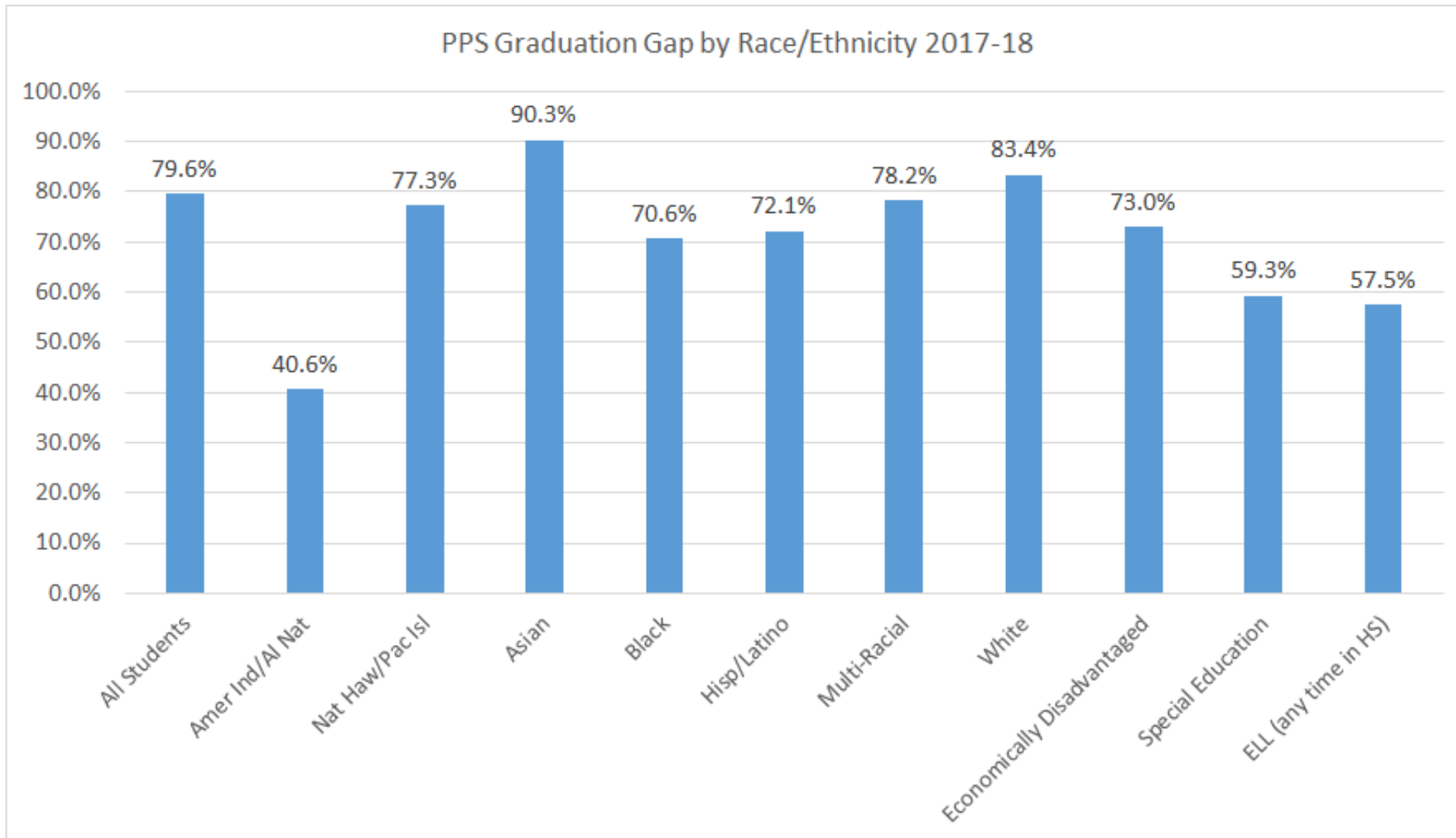


**CCR-CTE MASTER PLAN PRESENTATION  
MAY 21, 2019**

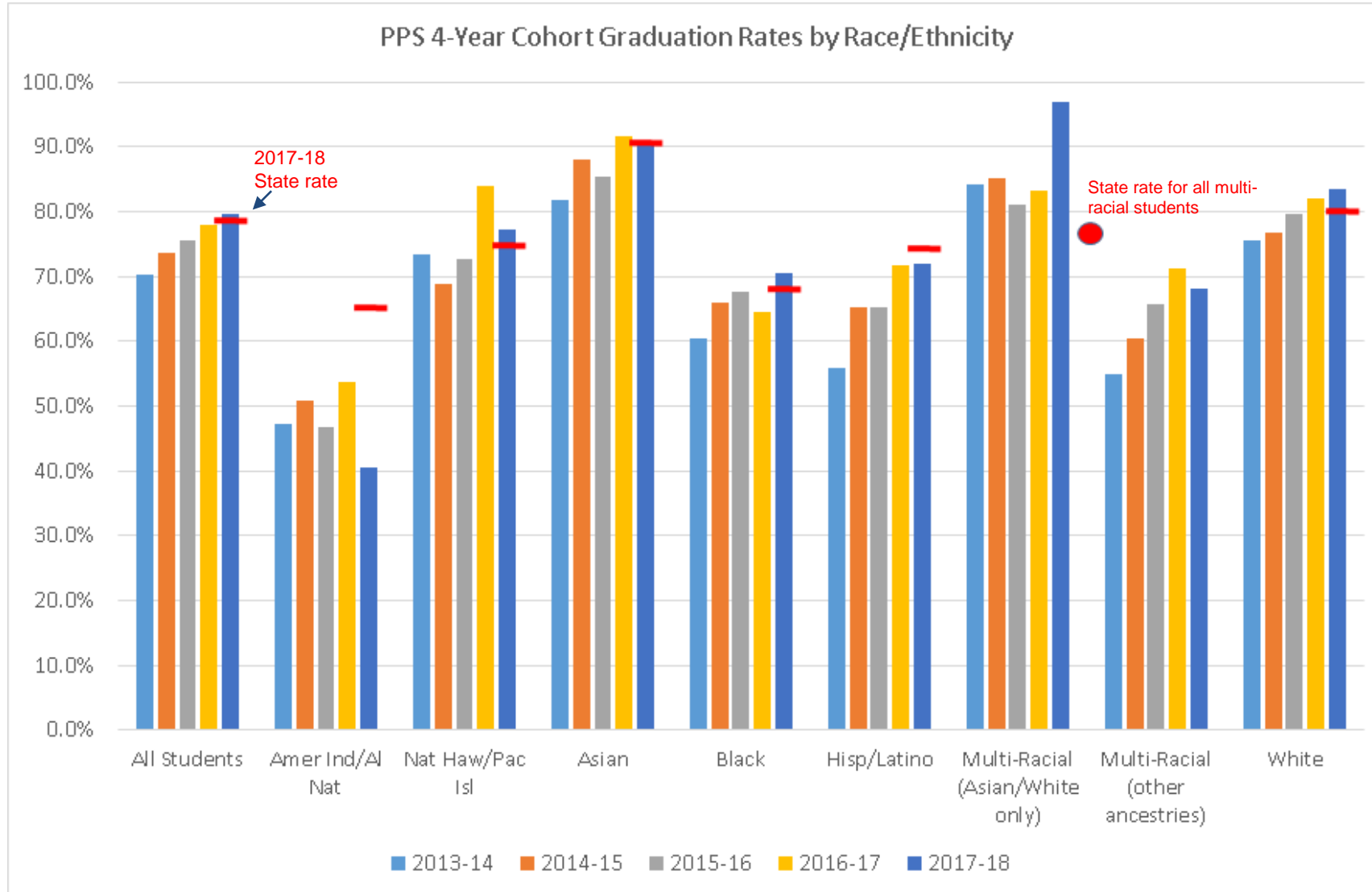
**ADDENDUM: COMPELLING CTE DATA,  
LABOR MARKET DATA, PATHWAYS DATA**

**COMPELLING CHANGE DATA: GRADUATION RATES  
COMPILED BY PPS STAFF**

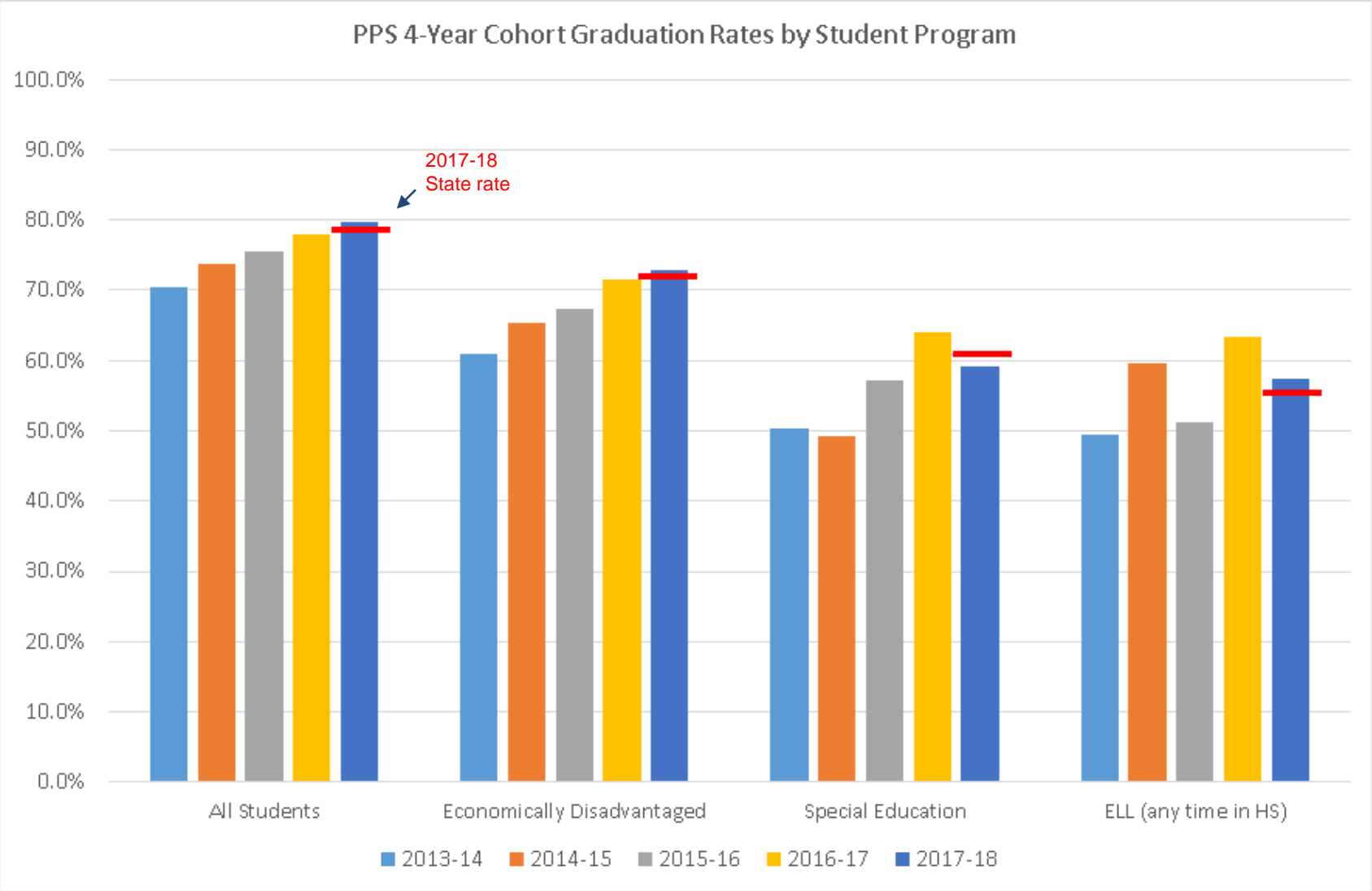
# PPS Race/Ethnicity Gap



# PPS Graduation Rates by Race/Ethnicity



# PPS Graduation Rates by Program



# PPS CTE Graduation Rates

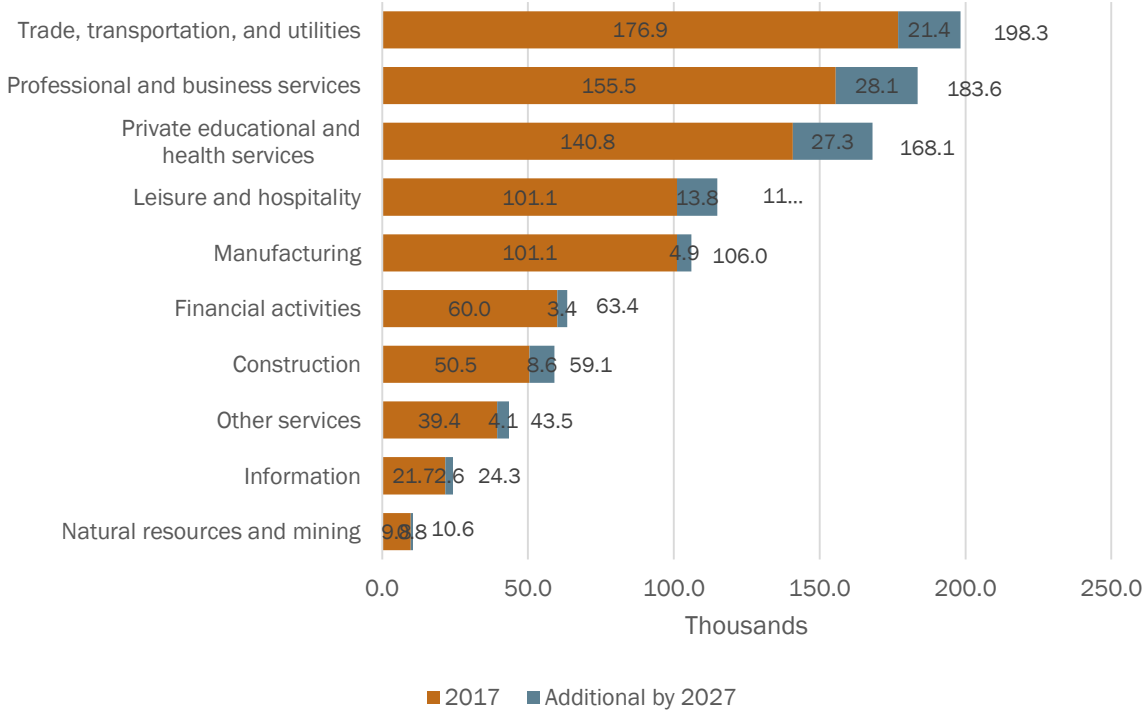
*Students completing 1 credit in CTE*

	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
PPS District Graduation Rate	63.0%	67.0%	70.0%	74.0%	75.0%	76.0%	79.6%
PPS District CTE Graduation Rate	84.0%	87.0%	89.0%	91.0%	90.0%	89.0%	*98.6%
Subpopulations:							
- American Indian	76.0%	54.0%	80.0%	83.0%	100.00%	100.0%	*100.0%
- Asian	97.0%	96.0%	94.0%	99.0%	97.0%	96.0%	*100.0%
- African American	75.0%	76.0%	87.0%	94.0%	93.0%	86.0%	*97.3%
- Hispanic	83.0%	88.0%	93.0%	88.0%	85.0%	88.0%	*98.3%
- White	82.0%	87.0%	91.0%	89.0%	81.0%	90.0%	*98.9%
<i>*Includes modified diploma students</i>							

**PRELIMINARY LABOR MARKET DATA**  
**COMPILED BY ECO NORTHWEST: ANDREW DYKE**

# Current and projected labor demand in tri-county region: Multnomah, Washington & Clackamas Counties

Tri-county employment by industry, 2017 and 2027



Total 2017 employment: 1.0 million

Projected for 2027: 1.2 million

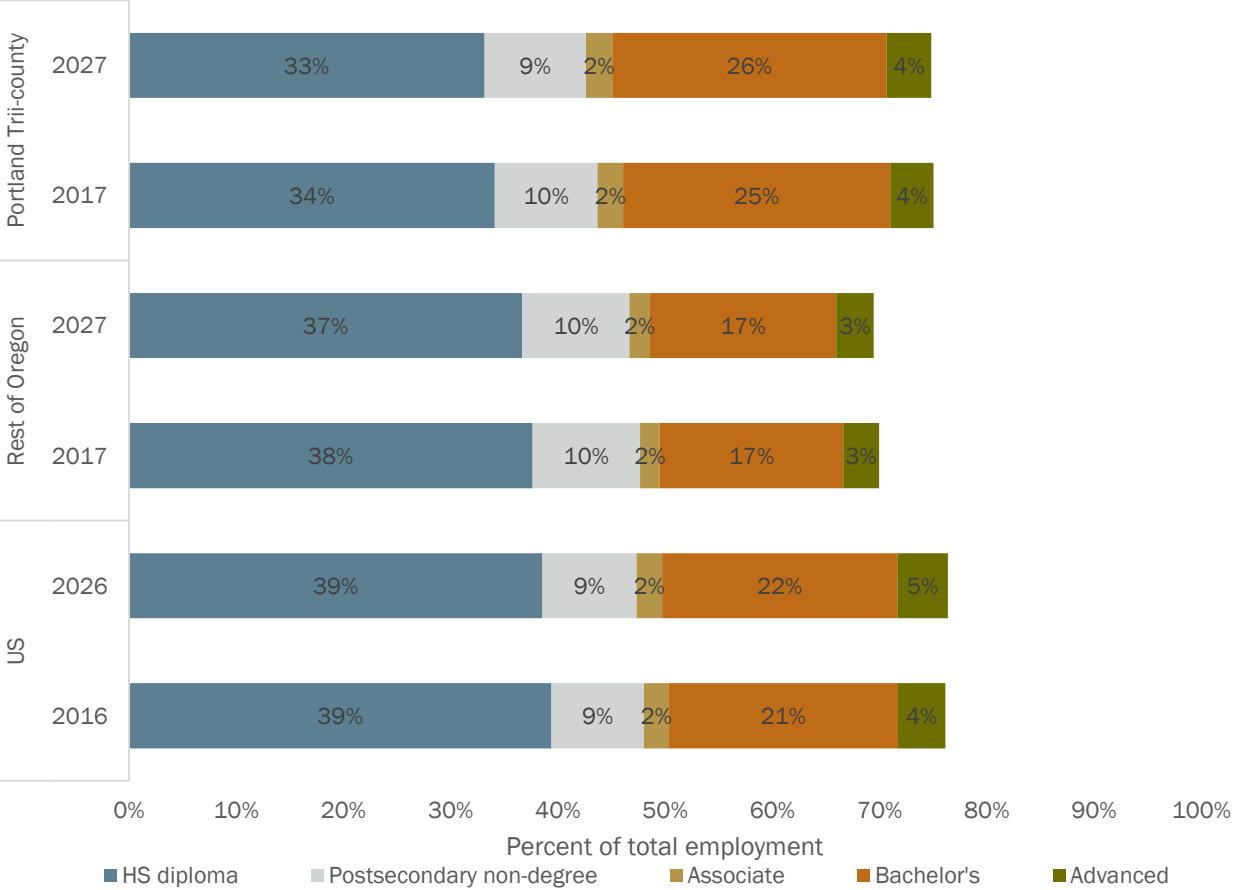
Industry	Employment growth 2017-2027
Trade/transportation/utilities	12%
Prof. and bus. svcs.	18%
Private ed./health	19%
Leisure/hospitality	14%
Manufacturing	5%
Financial	6%
Construction	17%
Other svcs.	10%
Information	12%
Trade/transportation/utilities	12%
Prof. and bus. svcs.	18%

Source data: Oregon Employment Department occupational projections

Provided by EcoNorthwest: Andrew Dyke



# Entry-level education requirements

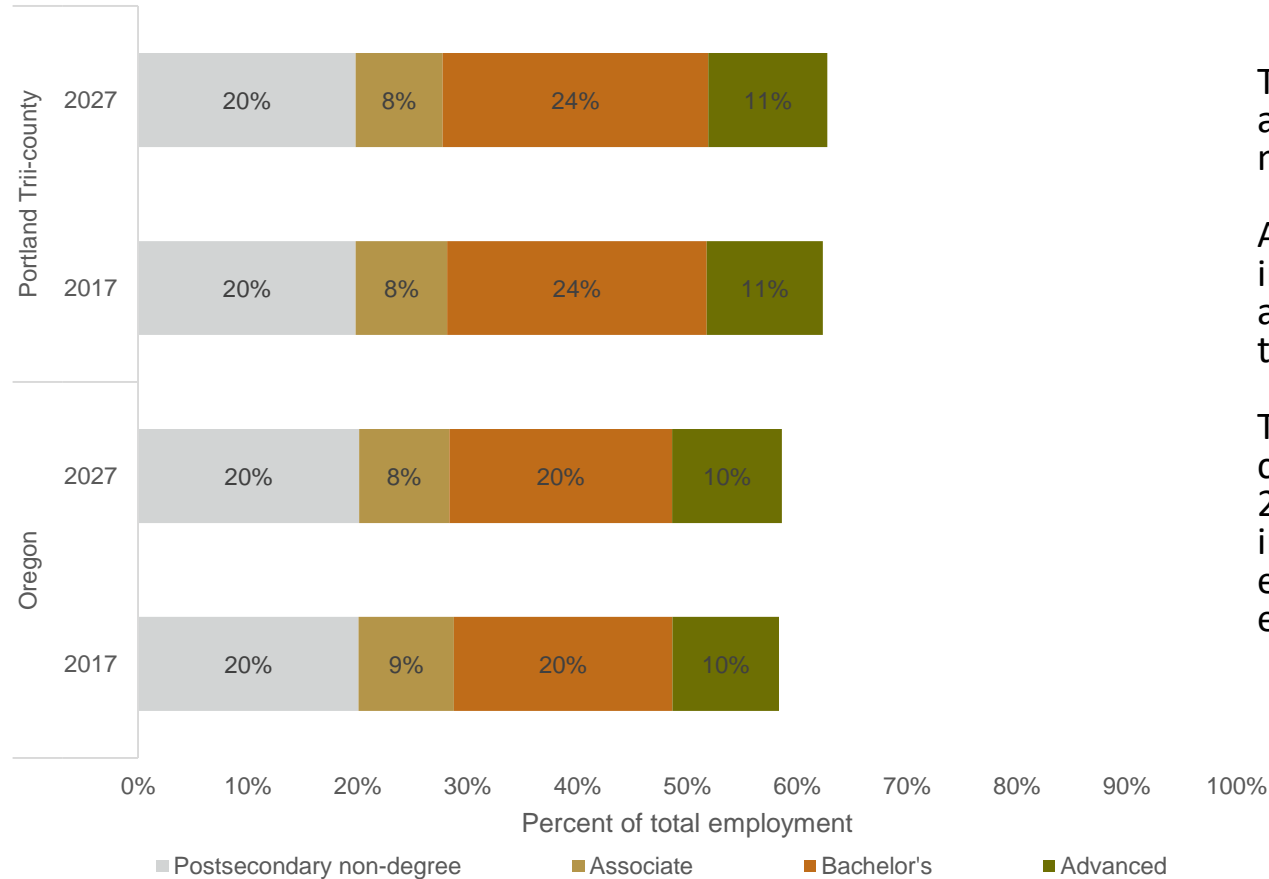


Overall, slight increase in education required for entry-level positions

Education requirements slightly higher in the Portland region

*Note: "Less than high school" not shown*  
*Source data: US Bureau of Labor Statistics and Oregon Employment Department occupational projections*  
 Provided by EcoNorthwest: Andrew Dyke

# Competitive education level



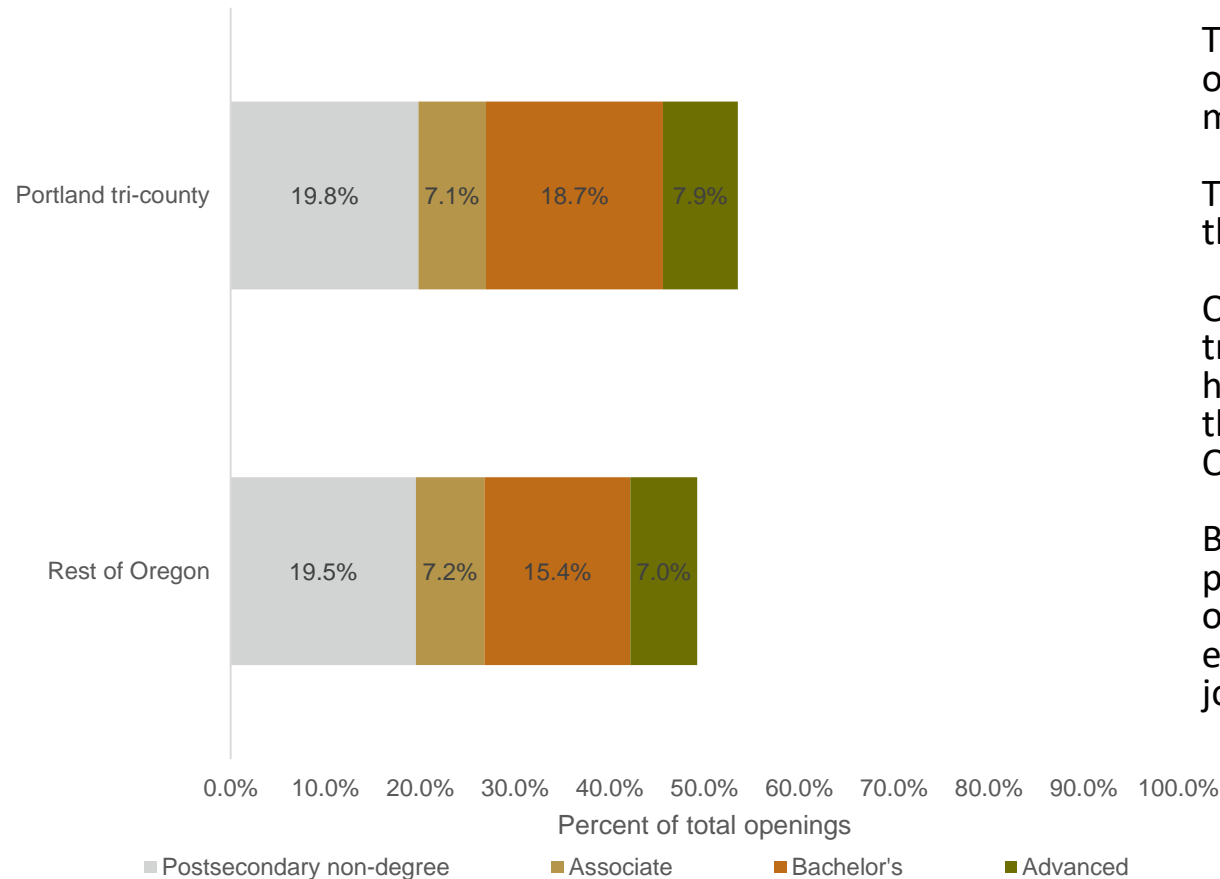
To be competitive, job applicants require more education

Again, requirements in the Portland area are higher than across the rest of the state

These patterns will continue through 2027, with slight increases in overall education required by employers

*Note: "High school" not shown; the competitive education requirement for all occupations is at least high school graduation.  
 Source data: US Bureau of Labor Statistics and Oregon Employment Department occupational projections  
 Provided by EcoNorthwest: Andrew Dyke*

# Openings through 2027 by education level



Tri-county total projected openings through 2027: 1.3 million

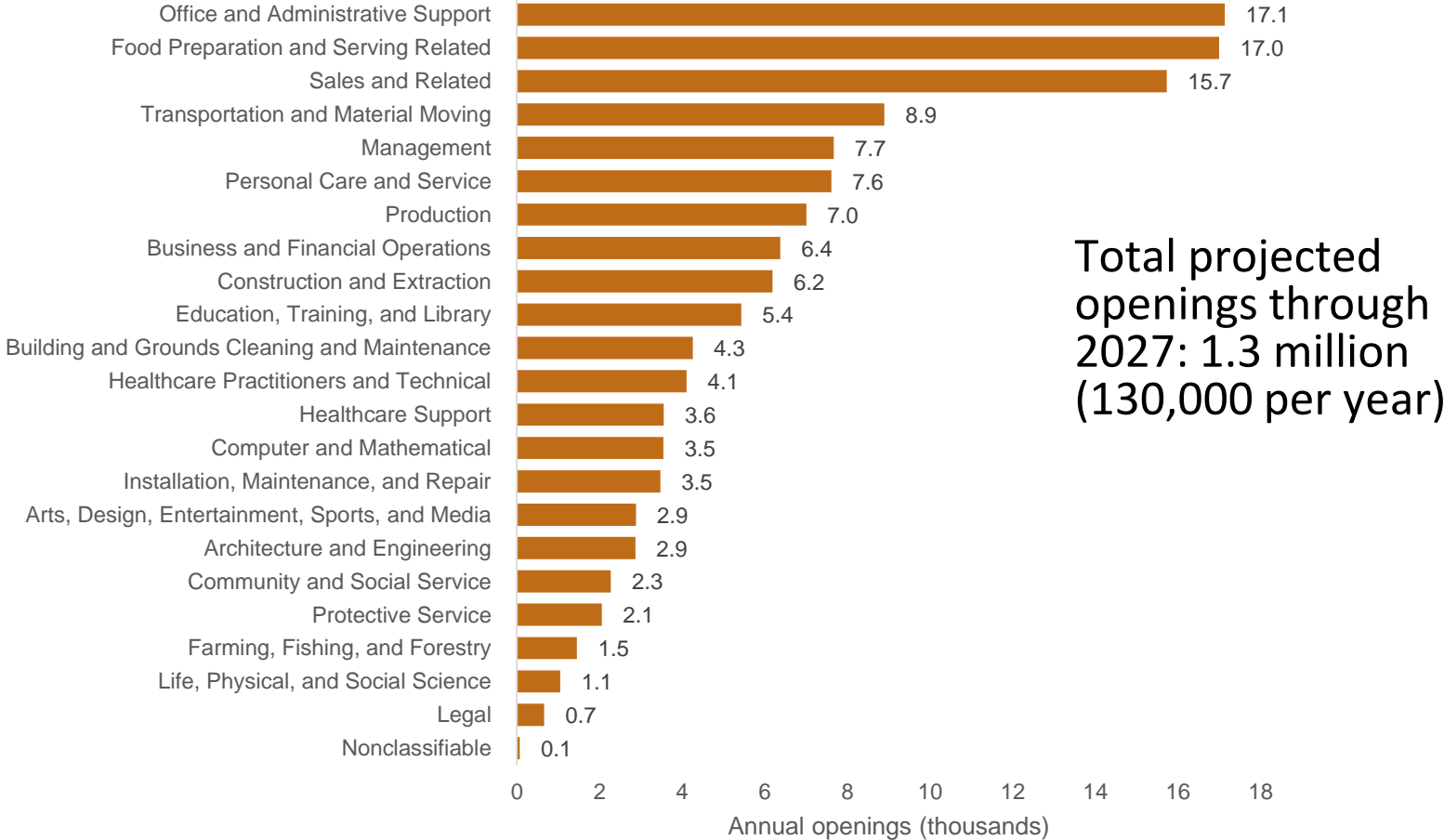
Total projected openings through 2027: 2.8 million

On average, openings in the tri-county area will require a higher level of education than those across the rest of Oregon

But churn in lower-level positions means that openings on average require even less education than do jobs overall

*Note: Competitive education level; "High school" not shown; the competitive education requirement for all occupations is at least high school graduation.  
Source data: US Bureau of Labor Statistics and Oregon Employment Department occupational projections  
Provided by EcoNorthwest: Andrew Dyke*

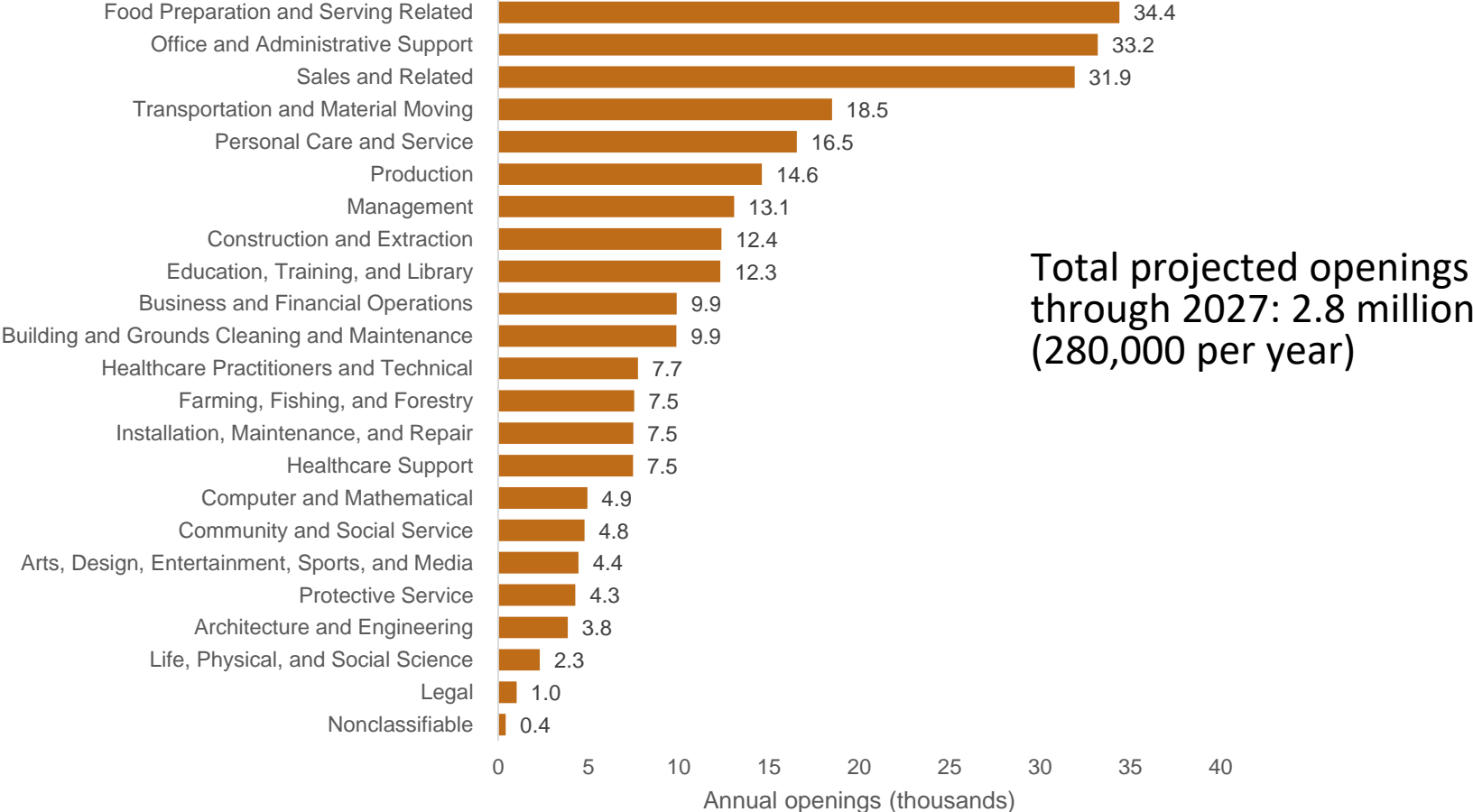
# Tri-county job openings by occupational group



Source data: Oregon Employment Department occupational projections

Provided by EcoNorthwest: Andrew Dyke

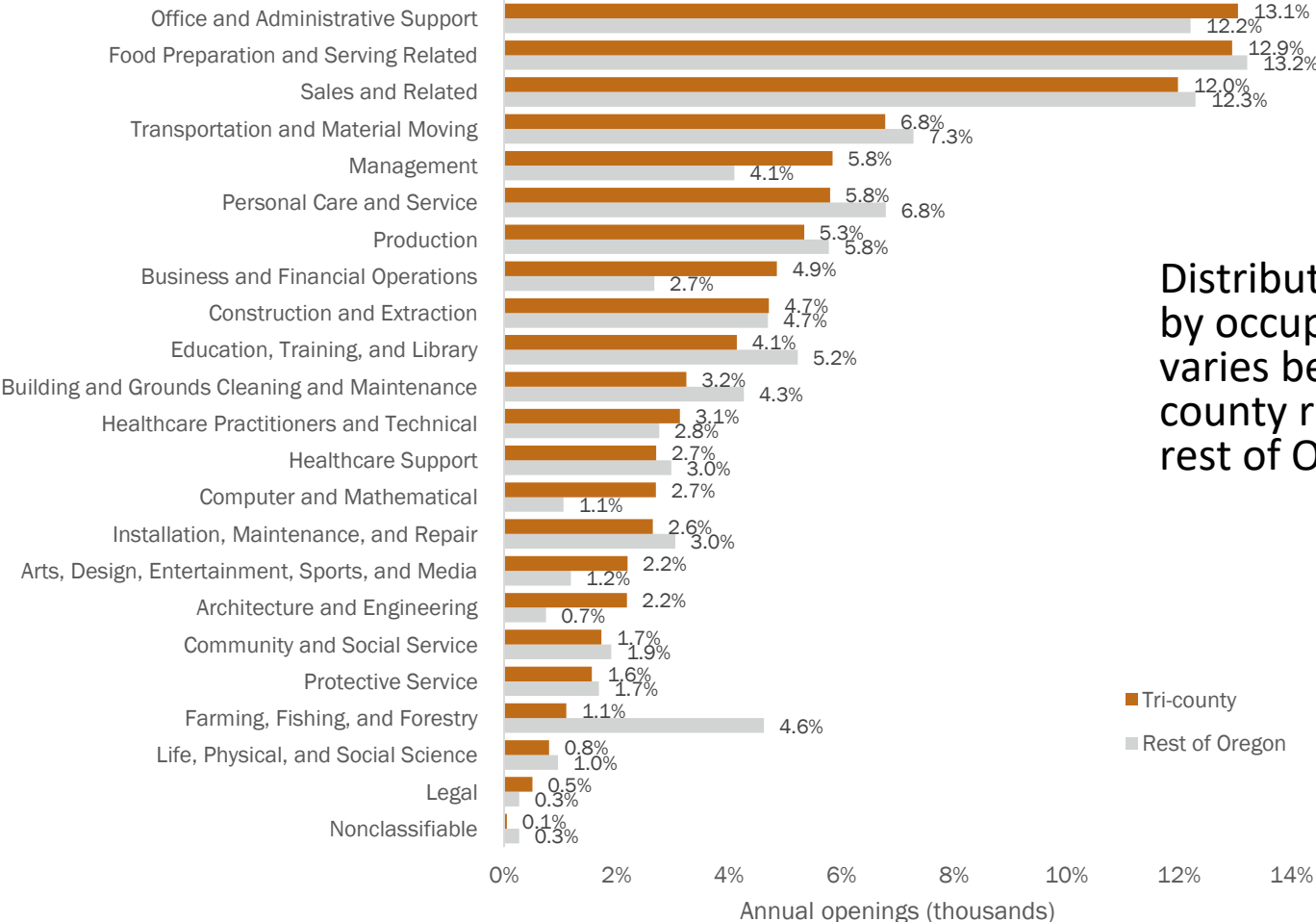
# Oregon job openings by occupational group



Source data: Oregon Employment Department occupational projections

Provided by EcoNorthwest: Andrew Dyke

# Share of job openings by occupational group

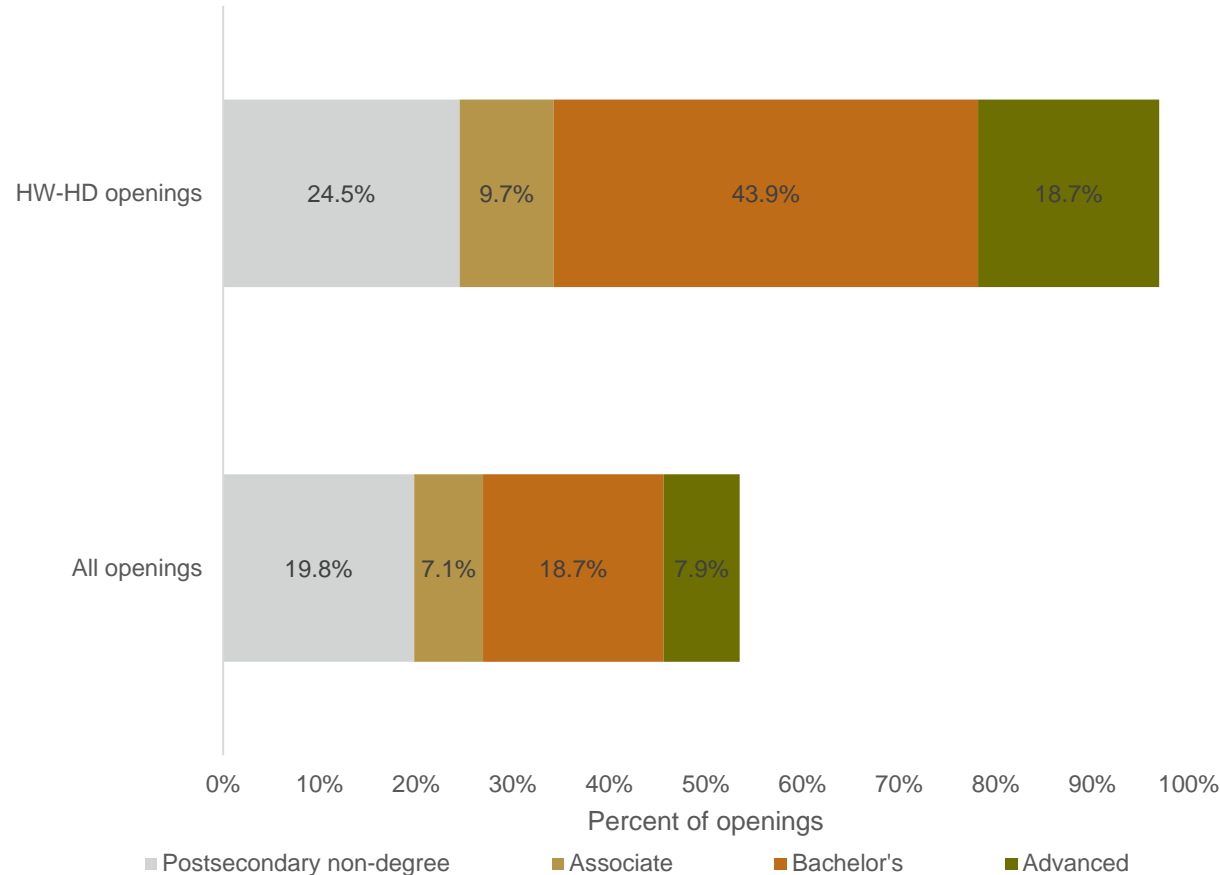


Distribution of openings by occupational group varies between the tri-county region and the rest of Oregon

Tri-county  
Rest of Oregon

Source data: Oregon Employment Department occupational projections  
 Provided by EcoNorthwest: Andrew Dyke

# High-wage / high-demand jobs



“**High-wage**” jobs typically pay wages above the median wage for the region

“**High-demand**” jobs are expected to grow faster than the median growth across all occupations in the region

46,500 of the expected 131,000 annual openings are in high-wage/high-demand occupations

On average, these openings will require much more education than will other positions

*Note: Competitive education level; “High school” not shown; the competitive education requirement for all occupations is at least high school graduation.  
Source data: US Bureau of Labor Statistics and Oregon Employment Department occupational projections*

# High-wage / high-demand jobs requiring high school graduation or non-degree postsecondary education

Standard Occupational Classification Title	Annual openings through 2027	2018 Median Hourly Wage	Competitive Education
Truck Drivers, Heavy and Tractor-Trailer	1,363	\$22.94	Postsecondary training (non-degree)
Carpenters	1,324	\$24.73	Postsecondary training (non-degree)
Sales Representatives, Services, All Other	857	\$25.13	Postsecondary training (non-degree)
Real Estate Sales Agents	629	\$26.41	Postsecondary training (non-degree)
Electricians	559	\$37.86	Postsecondary training (non-degree)
Plumbers, Pipefitters, and Steamfitters	523	\$39.09	Postsecondary training (non-degree)
Supervisors and Managers of Construction Trades and Extraction Workers	445	\$36.67	Postsecondary training (non-degree)
Self-Enrichment Education Teachers	350	\$24.11	Postsecondary training (non-degree)
Dental Assistants	346	\$22.53	Postsecondary training (non-degree)
Massage Therapists	343	\$29.19	Postsecondary training (non-degree)
Inspectors, Testers, Sorters, Samplers, and Weighers	328	\$21.83	Postsecondary training (non-degree)
Real Estate Brokers	288	\$32.96	Postsecondary training (non-degree)
Welders, Cutters, Solderers, and Brazers	255	\$22.59	Postsecondary training (non-degree)
Property, Real Estate, and Community Association Managers	229	\$36.57	Postsecondary training (non-degree)
Machinists	219	\$23.84	Postsecondary training (non-degree)
Industrial Machinery Mechanics	207	\$28.21	Postsecondary training (non-degree)
Sheet Metal Workers	206	\$22.45	Postsecondary training (non-degree)
Supervisors and Managers of Mechanics, Installers, and Repairers	193	\$31.33	Postsecondary training (non-degree)
Bus and Truck Mechanics and Diesel Engine Specialists	190	\$25.77	Postsecondary training (non-degree)
Installation, Maintenance, and Repair Workers, All Other	184	\$22.02	High school diploma or equivalent
Operating Engineers and Other Construction Equipment Operators	178	\$29.15	Postsecondary training (non-degree)
Supervisors and Managers of Housekeeping and Janitorial Workers	168	\$27.43	Postsecondary training (non-degree)
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	165	\$21.97	Postsecondary training (non-degree)
Tax Preparers	153	\$32.01	Postsecondary training (non-degree)

*Note: Based on competitive education level; table shows occupations anticipated to have greater than 150 annual openings*

*Source data: Oregon Employment Department occupational projections*

Provided by EcoNorthwest: Andrew Dyke



# High-wage / high-demand jobs requiring an associate degree or higher

Standard Occupational Classification Title	Annual openings through 2027	2018 Median Hourly Wage (or salary)	Competitive Education
General and Operations Managers	1,860	\$46.05	Bachelor's degree
Registered Nurses	1,530	\$45.19	Bachelor's degree
Wholesale and Manufacturing Sales Representatives, Except Technical and Scientific Products	1,229	\$29.39	Associate's degree
Software Developers, Applications	1,113	\$51.89	Bachelor's degree
Business Operations Specialists, All Other	1,072	\$33.51	Bachelor's degree
Managers, All Other	1,054	\$45.85	Bachelor's degree
Accountants and Auditors	967	\$31.60	Bachelor's degree
Supervisors and Managers of Office and Administrative Support Workers	812	\$29.12	Associate's degree
Substitute Teachers	719	\$22.21	Master's degree
Market Research Analysts and Marketing Specialists	604	\$34.54	Master's degree
Financial Managers	505	\$57.03	Bachelor's degree
Computer User Support Specialists	465	\$24.87	Bachelor's degree
Management Analysts	462	\$40.71	Master's degree
Sales Managers	454	\$55.39	Bachelor's degree
Human Resources Specialists	451	\$29.35	Bachelor's degree
Marketing Managers	426	\$57.92	Bachelor's degree
Elementary School Teachers, Except Special Education	388	\$71,432	Master's degree
Graphic Designers	371	\$27.64	Bachelor's degree
Automotive Service Technicians and Mechanics	360	\$24.56	Associate's degree
Supervisors and Managers of Production and Operating Workers	355	\$28.20	Bachelor's degree
Computer and Information Systems Managers	351	\$65.25	Bachelor's degree
Computer Occupations, All Other	351	\$40.94	Bachelor's degree
Health Specialties Teachers, Postsecondary	343	\$130,389	Doctoral or professional degree
Executive Secretaries and Executive Administrative Assistants	332	\$28.18	Associate's degree
Computer Systems Analysts	318	\$45.53	Bachelor's degree
Secondary School Teachers, Except Special and Career/Technical Education	313	\$78,500	Master's degree

*Note: Based on competitive education level; table shows occupations anticipated to have greater than 300 annual openings*

*Source data: Oregon Employment Department occupational projections*

Provided by EcoNorthwest: Andrew Dyke

**CTE PATHWAYS DATA**  
**COMPILED BY ED NORTHWEST: STEVE KLEIN**



# Pathway offerings by the numbers 2018-19

- 63 CTE pathways offered in ten high schools
- 8,037 current 9-12 students have earned (or are projected to earn by the end of this year) CTE credit (60% of total 9-12 district enrollment)
- 4,853 current 9-12 students have achieved concentrator status (or are projected to) in a CTE pathway (40% of total 9-12 district enrollment)



## Top 5 Clusters for 9-12 Student Enrollment

<u>Pathway</u>	<u>Students</u>
• Arts, AV, & Communication	4,408
• Health Services	3,686
• Hospitality & Tourism	2,584
• Information Technology	1,963
• Architecture & Construction	1,431



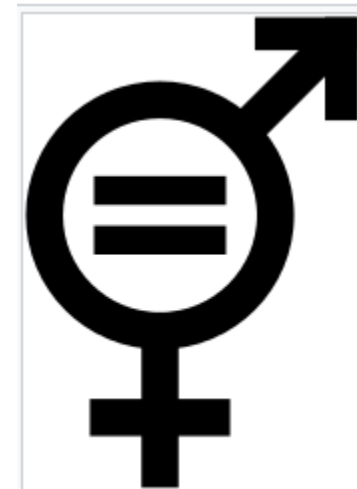
## Top 5 Clusters for 9-12 Student Concentration

<u>Pathway</u>	<u>Students</u>
• Arts, AV, & Communication	1,740
• Health Services	912
• Hospitality & Tourism	786
• Information Technology	736
• Architecture & Construction	572

# Gender Equity

Fewer than 25% of enrollees are female in the following clusters

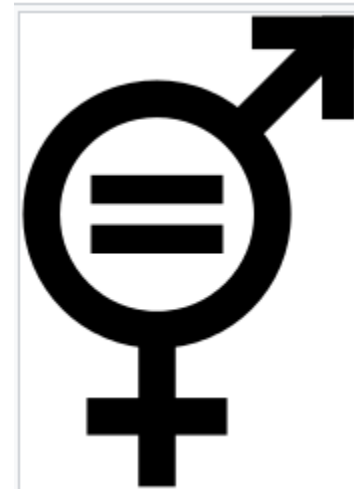
- STEM 19%
- Finance 21%



# Gender Equity

Fewer than 25% of concentrators are female in the following clusters

- Manufacturing 11%
- STEM 13%
- Information Technology 17%
- Architecture & Construction 19%
- Transportation Logistics 21%



# Race-ethnicity

	# of enrolled students		% Asian students		% Black students		% Native American Students		% Pacific Islander students		% Multiple race students		% white students	
	School	CTE	School	CTE	School	CTE	School	CTE	School	CTE	School	CTE	School	CTE
Overall	12166	8037	8.1%	9.1%	7.1%	7.9%	0.6%	0.7%	0.8%	0.7%	5.3%	9.0%	62.4%	56.4%
Alliance	198	135	*	*	19.7%	17.8%	*	*	*	*	10.6%	14.1%	38.4%	39.3%
Benson	1035	1196	9.6%	8.6%	12.9%	13.9%	*	*	*	0.8%	6.7%	10.1%	55.7%	41.1%
Cleveland	1651	964	9.6%	9.2%	2.6%	3.2%	*	*	*	*	4.7%	8.5%	69.0%	69.2%
Franklin	1856	1323	14.3%	15.0%	4.8%	5.4%	0.7%	*	0.8%	0.7%	5.4%	8.2%	50.9%	50.2%
Grant	1638	1054	1.8%	3.2%	6.3%	5.7%	0.8%	*	*	*	5.0%	12.3%	92.0%	71.3%
Lincoln	1698	933	10.2%	11.6%	1.4%	1.2%	*	*	*	*	3.5%	7.7%	70.0%	70.0%
Madison	1157	830	14.4%	17.2%	15.5%	12.3%	1.0%	*	1.5%	*	6.8%	8.7%	35.1%	36.6%
Metropolitan	404	28	3.0%	0.0%	*	*	*	*	0.0%	0.0%	4.7%	*	74.3%	71.4%
Roosevelt	994	682	3.7%	4.0%	18.3%	19.1%	1.1%	1.8%	3.3%	2.9%	6.6%	6.9%	31.0%	33.4%
Wilson	1535	995	2.8%	2.7%	4.7%	5.0%	*	*	*	*	4.5%	8.1%	74.9%	75.3%

\* Indicates fewer than ten students



# Special Populations

	# of enrolled students		% LEP students		% IEP students	
	School	CTE	School	CTE	School	CTE
Overall	12166	8037	4.0%	3.6%	12.2%	11.0%
Alliance	198	135	*	0.0%	27.3%	34.1%
Benson	1035	1196	4.2%	4.4%	16.6%	16.8%
Cleveland	1651	964	1.3%	*	11.2%	11.6%
Franklin	1856	1323	4.2%	3.8%	13.0%	12.4%
Grant	1638	1054	*	*	7.3%	6.6%
Lincoln	1698	933	1.9%	1.7%	4.8%	3.5%
Madison	1157	830	12.3%	9.0%	15.2%	10.7%
Metropolitan	404	28	*	0.0%	24.0%	35.7%
Roosevelt	994	682	12.9%	9.7%	20.0%	16.1%
Wilson	1535	995	1.8%	1.7%	10.1%	6.9%

\* Indicates fewer than ten students