

# TECH'S IMPACT ON **washington**

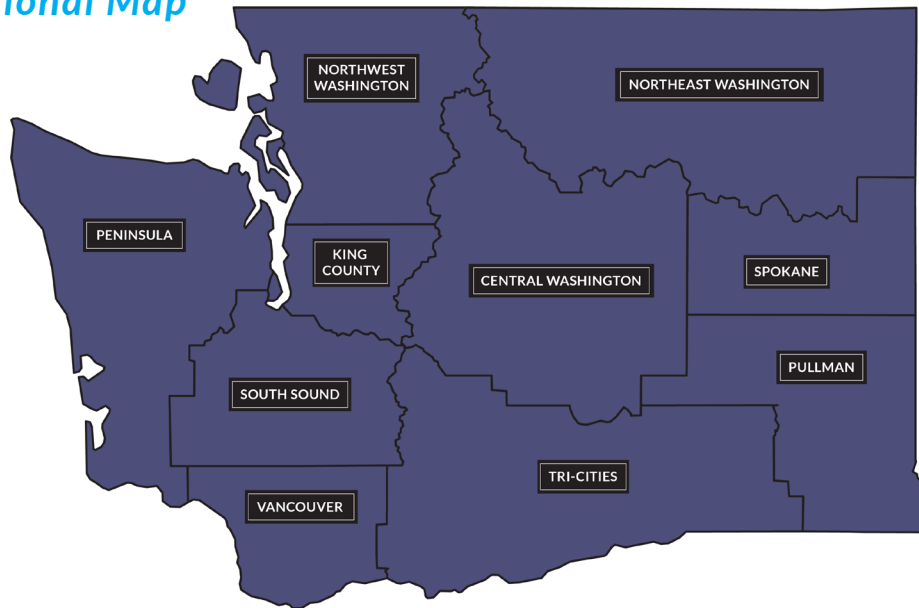
## Statewide & Regional STEM Data



TechAlliance | The Economic Effect of Technology on Jobs and Communities

SEPTEMBER 2017

### Regional Map



### Counties by Region

#### PENINSULA

- Clallam County
- Grays Harbor County
- Jefferson County
- Kitsap County
- Mason County
- Pacific County
- Wahkiakum County
- Whatcom County

#### NORTHWEST WASHINGTON

- Island County
- San Juan County
- Skagit County
- Snohomish County

#### KING COUNTY

- King County

#### SOUTH SOUND

- Lewis County
- Pierce County
- Thurston County

#### VANCOUVER

- Clark County
- Cowlitz County
- Skamania County

#### NORTHEAST WASHINGTON

- Ferry County
- Okanogan County
- Pend Oreille County
- Stevens County

#### CENTRAL WASHINGTON

- Chelan County
- Douglas County
- Grant County
- Kittitas County

#### TRI-CITIES

- Benton County
- Franklin County
- Klickitat County
- Walla Walla County
- Yakima County

#### SPOKANE

- Lincoln County
- Spokane County

#### PULLMAN

- Adams County
- Asotin County
- Columbia County
- Garfield County
- Whitman County

### STEM Jobs in Washington State

STEM EMPLOYMENT, 2016

**503,139**

PERCENT OF JOBS  
that are STEM, 2016

**16%**

TOTAL EMPLOYMENT, 2016

**3,122,749**

STEM GRADUATES,  
Cumulative Completions,  
2005-2016

**132,799**

#### TOP STEM INDUSTRIES

TOP STEM INDUSTRIES	% STEM JOBS
Information	52%
Professional, Scientific, and Technical Services	44%
Health Care and Social Assistance	32%
Management of Companies and Enterprises	21%
Government	19%

#### TOP STEM OCCUPATIONS

TOP STEM OCCUPATIONS	# STEM JOBS
Software Developers, Applications	63,754
Registered Nurses	54,792
Computer Systems Analysts	19,954
Civil Engineers	16,096
Computer User Support Specialists	15,734

#### TOP REGIONS FOR STEM

TOP REGIONS FOR STEM	# STEM JOBS
King County	249,114
Northwest WA	60,121
South Sound	51,814
Tri-Cities	28,357
Spokane	25,578

## Regional STEM Employment, Jobs and Graduates

	STEM EMPLOYMENT, 2016	TOTAL EMPLOYMENT, 2016	PERCENT OF WA JOBS THAT ARE STEM, 2016	STEM GRADUATES, <i>Cumulative Completions, 2005-2015</i>
KING COUNTY	249,114	1,313,619	19%	58,360
NORTHWEST WASHINGTON	60,121	441,834	14%	15,923
SOUTH SOUND	51,814	429,896	12%	15,030
TRI-CITIES	28,357	263,838	11%	5,591
SPOKANE	25,578	217,642	12%	13,420
VANCOUVER	24,171	188,914	13%	4,903
PENINSULA	21,735	160,411	14%	4,374
CENTRAL WASHINGTON	9,062	108,245	8%	5,163
PULLMAN	3,782	34,201	11%	10,035
NORTHEAST WASHINGTON	3,524	33,443	11%	0

## Top STEM Occupations by Region

KING COUNTY	# STEM JOBS
Software Developers, Applications	47,227
Registered Nurses	20,874
Computer Systems Analysts	11,934
Software Developers, Systems Software	10,463
Computer Programmers	9,601

SOUTH SOUND	# STEM JOBS
Registered Nurses	9,624
Licensed Practical and Licensed Vocational Nurses	2,347
Computer Systems Analysts	2,195
Computer Programmers	2,020
Civil Engineers	1,730

NORTHWEST WASHINGTON	# STEM JOBS
Registered Nurses	6,655
Aerospace Engineers	5,564
Industrial Engineers	2,610
Software Developers, Applications	1,915
Software Developers, Systems Software	1,715

SPOKANE	# STEM JOBS
Registered Nurses	5,847
Software Developers, Applications	756
Licensed Practical and Licensed Vocational Nurses	684
Civil Engineers	659
Computer Systems Analysts	651

TRI-CITIES	# STEM JOBS
Registered Nurses	3,926
Civil Engineers	3,531
Architectural and Engineering Managers	715
Engineers, All Other	659
Physicians and Surgeons, All Other	578

VANCOUVER	# STEM JOBS
Registered Nurses	3,894
Computer User Support Specialists	1,193
Civil Engineers	1,094
Software Developers, Applications	778
Computer Systems Analysts	712

PENINSULA	# STEM JOBS
Registered Nurses	2,274
Engineering Technicians, Except Drafters, All Other	1,492
Nuclear Engineers	1,179
Mechanical Engineers	893
Computer Systems Analysts	765

CENTRAL WASHINGTON	# STEM JOBS
Registered Nurses	1,524
Forest and Conservation Technicians	604
Civil Engineers	346
Biological Technicians	273
Pharmacy Technicians	265

PULLMAN	# STEM JOBS
Registered Nurses	608
Civil Engineers	270
Forest and Conservation Technicians	243
Emergency Medical Technicians and Paramedics	149
Zoologists and Wildlife Biologists	150

NORTHEAST WASHINGTON	# STEM JOBS
Registered Nurses	552
Forest and Conservation Technicians	256
Civil Engineers	206
Zoologists and Wildlife Biologists	122
Biological Technicians	114

Note: Each region may have additional presence within other STEM occupations

# Top STEM Industries by Region

KING COUNTY		TRI-CITIES		NORTHWEST WASHINGTON	
	% STEM JOBS		% STEM JOBS		% STEM JOBS
Information	59%	Professional, Scientific & Technical Services	52%	Professional, Scientific & Technical Services	44%
Professional, Scientific & Technical Services	46%	Health Care & Social Assistance	29%	Health Care & Social Assistance	31%
Health Care & Social Assistance	34%	Government	17%	Information	28%
Management of Companies & Enterprises	22%	Management of Companies & Enterprises	16%	Manufacturing	23%
Manufacturing	20%	Administrative Services*	15%	Management of Companies & Enterprises	19%

VANCOUVER		PENINSULA		CENTRAL WASHINGTON		SPOKANE	
	% STEM JOBS		% STEM JOBS		% STEM JOBS		% STEM JOBS
Professional, Scientific & Technical Services	40%	Professional, Scientific & Technical Services	36%	Health Care & Social Assistance	33%	Health Care & Social Assistance	31%
Health Care & Social Assistance	30%	Health Care & Social Assistance	28%	Professional, Scientific & Technical Services	29%	Professional, Scientific & Technical Services	31%
Management of Companies & Enterprises	23%	Government	22%	Government	19%	Management of Companies & Enterprises	18%
Information	21%	Information	10%	Management of Companies & Enterprises	15%	Government	15%
Government	20%	Management of Companies & Enterprises	8%	Information	8%	Information	13%

SOUTH SOUND		NORTHEAST WASHINGTON		PULLMAN	
	% STEM JOBS		% STEM JOBS		% STEM JOBS
Professional, Scientific & Technical Services	31%	Health Care & Social Assistance	31%	Health Care & Social Assistance	30%
Health Care & Social Assistance	30%	Professional, Scientific & Technical Services	30%	Professional, Scientific & Technical Services	30%
Government	21%	Government	20%	Government	20%
Management of Companies & Enterprises	15%	Management of Companies & Enterprises	15%	Information	16%
Information	12%	Information	12%	Management of Companies & Enterprises	15%

Each region may have additional presence within other STEM industries.

\*Includes: Administrative, Support, Waste Management and Remediation Services



The Technology Alliance is a statewide, non-profit organization of leaders from Washington's technology-based businesses and research institutions. These stories were created in conjunction with an interactive website: [technology-alliance.com/tech-impact-wa](http://technology-alliance.com/tech-impact-wa)



Community Attributes Inc. produced the research, the reports, and the interactive website for *Tech's Impact on Washington*. CAI is based in Seattle, with practice leaders in Denver and San Francisco. CAI provides research and tools to increase awareness, inform decisions, and improve results for our clients and the communities they serve.

Sources: Washington State Employment Security Department, 2016; Bureau of Labor Statistics, 2016; Washington State Employment Security Department, 2016; National Center for Education Statistics, 2015; National Center for Education Statistics, 2005-2015; Washington State Employment Security Department, 2017; Community Attributes Inc., 2017.