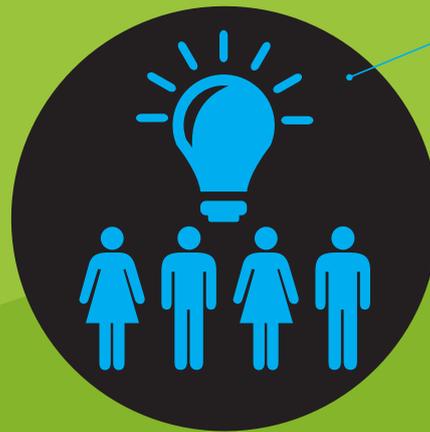
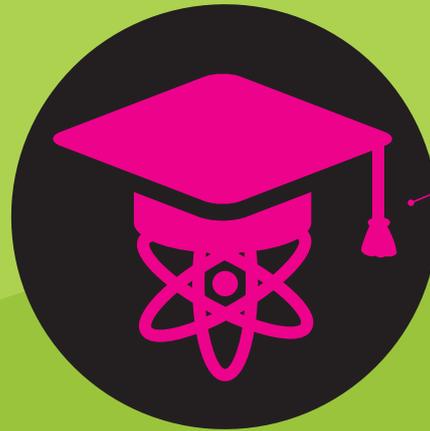


# Stacking up Washington's Innovation Strengths & Committing to do More, Better

Washington is routinely ranked among the top five most innovative states, recognized for the diversity of our tech-driven companies and strength of our public and private research institutions. And yet there is room for improvement. We have huge gaps between the demand for and diversity of high-tech employees, and the capacity of our educational institutions. We birth thousands of patentable ideas each year but don't attract enough capital to help them stay and thrive locally. We have tech-driven companies that span every industry sector but access to their opportunities is not well distributed.

Washington has a robust economy, and we should be intentional about continuing to broaden and deepen the reach of our tech-driven economic growth. The Technology Alliance exists to do just that. This is where we focus and what we do. **Join with us.**



## Metrics that Matter and How we Rank

Talent Pipeline		
Metric	Data Point	National Rank
Percent of demand for Computer Science degrees/certificates met by in-state institutions <sup>1</sup>	<b>43%</b>	N/A
Percent of female workers in tech sector <sup>2</sup>	<b>32.6%</b>	<b>38</b>

Entrepreneurial & Research Strength		
Metric	Data Point	National Rank
Patent filers per 1000 workers <sup>3</sup>	<b>23.3</b>	<b>2</b>
Number of deals closed <sup>4</sup>	<b>311</b>	<b>5</b>
Total capital invested <sup>5</sup>	<b>\$1.6B</b>	<b>6</b>
Public R&D funding per worker <sup>6</sup>	<b>\$1667</b>	<b>9</b>
R&D input index <sup>7</sup>	<b>78.25</b>	<b>7</b>

Tech's Reach		
Metric	Data Point	National Rank
Percent of jobs in advanced industries <sup>8</sup>	<b>2%-16%</b> Across WA cities	<b>2</b> state overall rank for advanced industry employment share



## The Work We Do

The Tech Alliance has research, events and programs underway focused on expanding the opportunities and impact of tech-driven innovation.



### Education & the Talent Pipeline

Creating a job and interest explorer app - leveraging education and job data to help young people discover opportunities aligned with their passions and in their communities.

Growing the number of female hiring managers in tech - building out the case for and demonstrating how the diversity of hiring managers is a high leverage entry point for expanding the female tech pipeline.



### Entrepreneurial & Research Strength

Connecting corporate venturers with PNW entrepreneurs and researchers - hosting forums and producing tools to facilitate learning, discovery, and connections for companies innovating through external investments and partnerships.



### Tech's Reach

Researching the breadth, depth and impact of tech & innovation across the state - creating an interactive digital report that uses data and stories to show technology's impact on the state's industries, and the resulting economic and workforce shifts across communities.

## Sources

- <sup>1</sup> IPEDS, BLS, ESD data (2015). Analysis from <http://www.wsac.wa.gov/sites/default/files/2016.04.01.Skilled.and.Educated.Workforce.pdf>
- <sup>2</sup> EMSI-US Bureau of Labor Statistics. Analysis from CompTIA, Cyberstates 2017
- <sup>3</sup> US Patent and Trademark Office, US Resident Inventors and Their Utility Patents (2012-15). Analysis from [itif.org/technation](http://itif.org/technation)
- <sup>4</sup> NVCA 2017 Yearbook, (2016) Data Provided by Pitchbook.
- <sup>5</sup> Ibid
- <sup>6</sup> [itif.org/technation](http://itif.org/technation)
- <sup>7</sup> Rank is based on 18 R&D indicators in these categories: Federal R&D expenditures; Industry R&D expenditures; Academic R&D expenditures; National Science Foundation (NSF) funding; Small Business Technology Transfer (STTR) awards; and Small Business Innovation Research program (SBIR). <http://statetechandscience.org/State-Technology-and-Science-Index-2016.pdf>
- <sup>8</sup> Advanced industries are those that spend at least \$450/worker/year on R&D, and employ at least 20% of workforce in STEM-intensive occupations. Moody's Analytics, Brookings analysis (2013 data) at <https://www.brookings.edu/research/americas-advanced-industries-what-they-are-where-they-are-and-why-they-matter/>.

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