

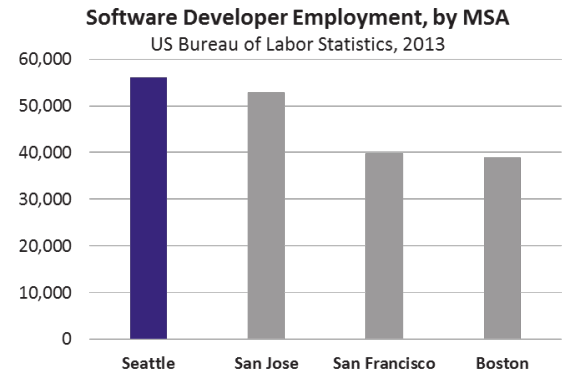


# University of Washington Computer Science & Engineering:

## Expanding to Prepare More of Washington's Students for Washington's Leading-edge Jobs

### Washington's information and communications technology industry is a job-creation powerhouse that drives our state economy:

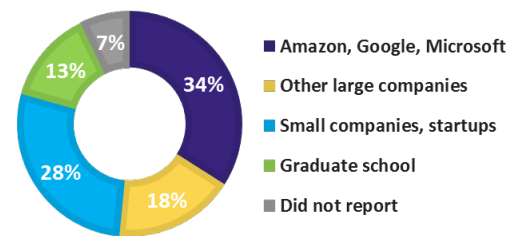
- The 8,610 ICT companies that call Washington home directly employ 176,600 people in our state.
- Another 62,300 people are employed in ICT-related positions in other Washington industries.
- Washington is the software capital of America, with more software developers employed in the Puget Sound region than in Silicon Valley, San Francisco, or Boston.



### No other program comes close to the contribution of UW CSE in preparing Washington's students for Washington's ICT jobs:

- More than 3/4<sup>ths</sup> of our students are Washington residents.
- 90% of UW graduates in the past two years now working under the title "software engineer" are employed in Washington State.
- We are the top supplier in the state *by far* of computer science graduates to Washington's leading-edge companies of all sizes.

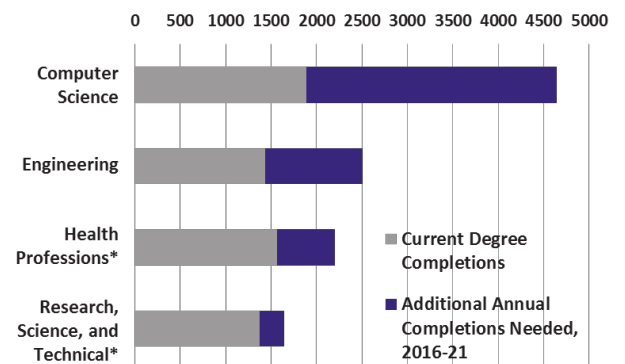
Where Do UW CSE Graduates Go?



### Washington's largest workforce gap and greatest need for additional degree capacity is in computer science:

- The state's own projections indicate that the gap in computer science is greater than the next three most in-demand fields, combined.
- Nationally, 71% of all newly created jobs in all science and engineering fields in the current decade are projected to be in computer science.
- 57% of all available science and engineering jobs, whether due to growth or retirement, are projected to be in computer science.

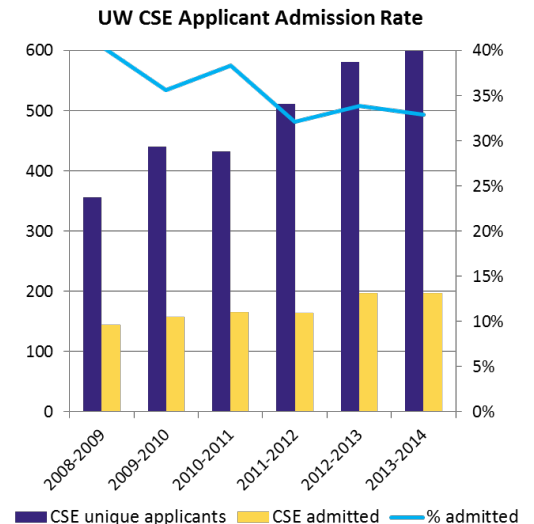
High Demand Fields in WA State, Baccalaureate & Above  
WSAC/SBCTC/WTECB, October 2013



\*Gap exists at the graduate and/or professional level only

## Washington's students recognize the opportunity! But student demand far exceeds our current capacity:

- UW CSE can only accommodate 1/3<sup>rd</sup> of qualified UW students who apply to the major.
- We expect to enroll 5,000 students in our introductory courses this year – double the number we taught a decade ago.
- Our move into Paul G. Allen Center for Computer Science & Engineering – funded by an unprecedented public/private partnership – was transformational, enabling us to increase student enrollment, grow our world-class faculty, triple our research funding, and engage in high-impact collaborations across campus and in our community.
- After 11 years of growth and impact, the Allen Center is filled to overflowing.



## Expanding our capacity to meet the needs of Washington's students, Washington's employers, and Washington's economy:

- With legislative support, we have significantly increased student access to our program to reach 300 degrees per year.
- Additional growth (to 375 degrees per year) has been funded, and can be "squeezed in," but the Allen Center does not have sufficient capacity for the long term.
- The Governor's capital budget requests \$40 million to partially fund a second building for UW CSE - with the remainder of the project cost, estimated by UW at \$105 million, to be raised privately.
- We hope for further enrollment growth: A bipartisan group of state legislators will request funding in this session to grow computer science enrollments at UW, WSU, and WWU – increasing UW CSE's degree production to 600 degrees per year.
- Employer demand will continue to grow, thanks to our vibrant technology industry and the broad role of information technology in our modern world.
- Student interest will continue to grow, thanks to Code.org and HB 1813, which will dramatically increase the exposure of Washington's K-12 students to this phenomenal field.

### Washington's Expanding ITC Opportunity



Computer science and computer engineering are changing the world.  
**UW CSE and Washington State can drive this revolution.**