

WA State Centers of Excellence

Centers are flagship institutions that build and sustain Washington's competitive advantage through statewide leadership. Each Center focuses on a targeted industry that drives the state's economy and is built upon a reputation for fast, flexible, quality education and training programs. A targeted industry is identified as one that is strategic to the economic growth of a region or state.

Centers in:

Aerospace & Advanced Materials Manufacturing, Agriculture, Allied Health, Careers in Education, Construction, Clean Energy, Homeland Security, ***Information & Computing Tech***, Global Trade & Supply Chain Mgmt, Marine Manufacturing & Technology

Center of Excellence for ICT (COEforICT)

- ◆ Active since 2009
- ◆ Supports entire path to System Administration
 1. Starts with K-12 kids and teachers
 2. Robust set of certificates, associate, and bachelor degrees
 3. Industry feedback on what works

COEforICT Provides

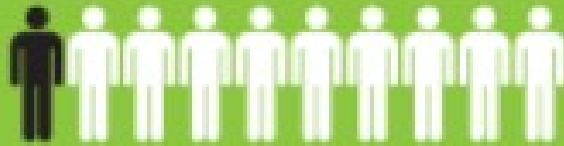
- ◆ Up-to-date research, including IT trends that impact hiring and educational needs and business
- ◆ Growth across industry sectors in Washington State
- ◆ Best practices for ICT education and training
- ◆ Information dissemination
- ◆ K-12 & College faculty professional development
- ◆ Student events

COEforICT Approach

- ◆ Collect solid data about what is needed
 - ◆ National and local surveys
 - ◆ Research reports
- ◆ Work closely with industry
- ◆ Coordinate new and existing IT programs in state
- ◆ Provide training to K-12 teachers on IT skills
- ◆ Expose kids to IT careers

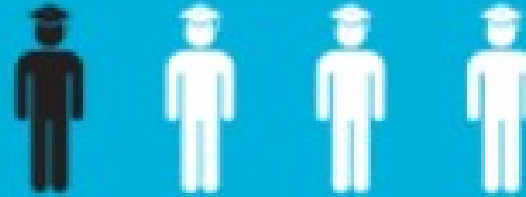
Skills Gap

Growing skill gap



Only 1 in 10

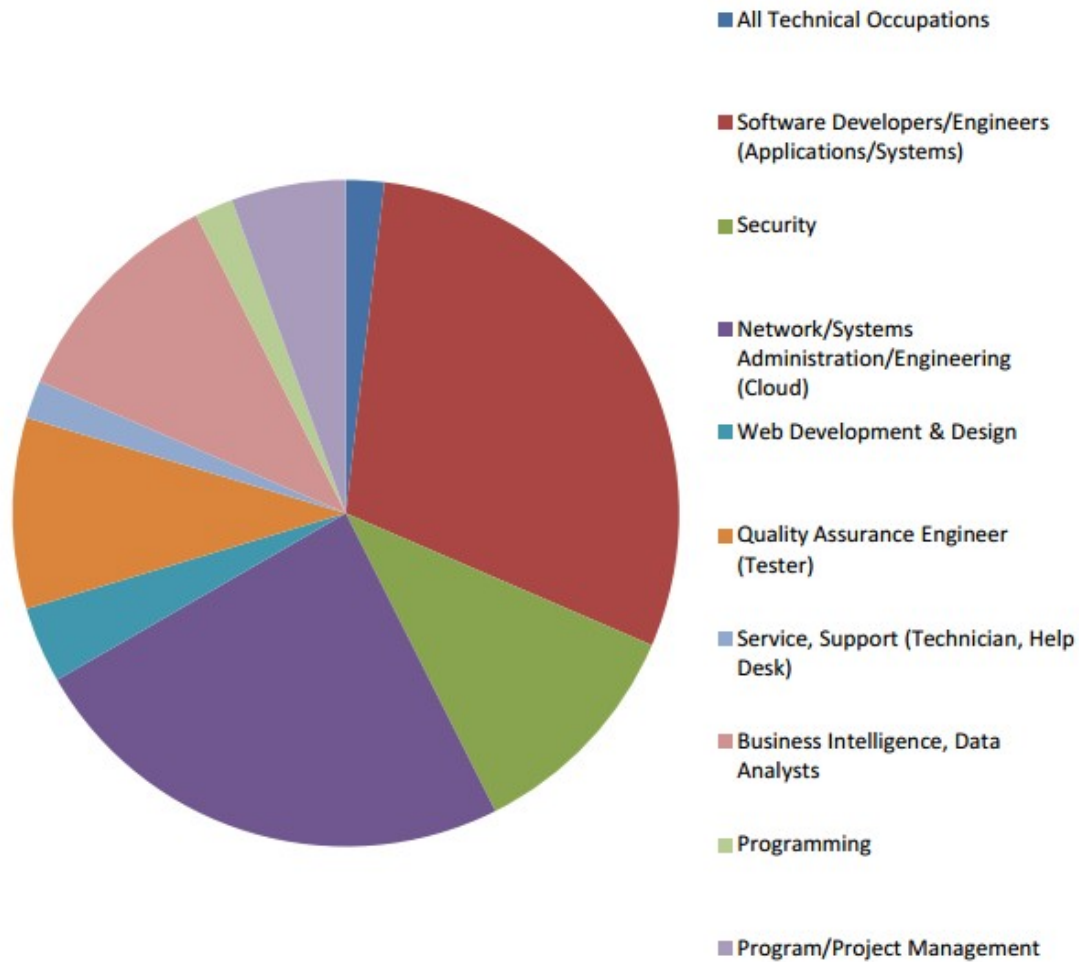
organizations has all the skills
it needs to be successful



Roughly 3 out of 4

students and educators report
a moderate to major gap in their
ability to meet the skill needs
of the IT workforce

Which IT Jobs Hardest to Fill



COEforICT Events



Careers in IT: The Real Story



Pathways to IT Applied Baccalaureate Degrees for WA State Students Summit



The Future in IT Challenge (June 2014)



Learn IT Technology Today for Tomorrow



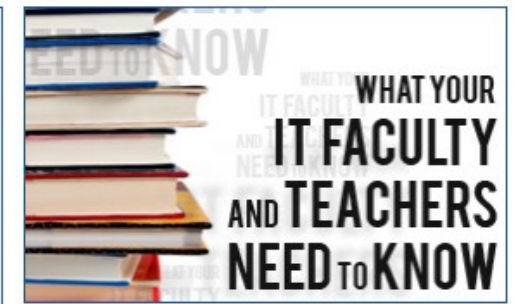
IT Futures Education Summit at Microsoft



STEM Summit



"The Life of an IT Professional: A Five Minute Story" Video Competition



What Your IT Faculty and Teachers Need to Know

COEforICT Transparency

- ◆ Each event has slides/videos on website
- ◆ Each event has Evaluation page with
 - ◆ Survey of participants
 - ◆ Costs & Expenses
 - ◆ ROI

Wash State System Admin Programs

- ♦ 46 Certificate programs (6 – 18 months)
 - ♦ Linux/Unix, Network, Windows, Servers, Cisco, Database, Forensics,
- ♦ 54 Associate degrees (2 years)
 - ♦ Networking, Security, IT, Computing, Web Applications, Forensics, Database, Infrastructure
- ♦ 8 Bachelor degrees plus at least 3 more in planning
 - ♦ Information Technology, Information Systems and Technology, Computer Science and Systems

Lessons Learned

- ▶ COEforICT has industry advisory board
- ▶ Each 4 year degree program has industry advisory board
- ▶ Even with research on what is needed, there is a lag in education teaching it
- ▶ Internships/big projects required for 4 year degrees
- ▶ Most courses are vendor specific (Cisco, Microsoft) because creating courses from scratch is expensive

References & Questions

- ▶ <http://www.coewa.com/> - Centers of Excellence
- ▶ <http://www.coeforict.org/> - COEIT
- ▶ <http://yourfuturein.it/> - Website for students