



The Center of Excellence for Information and Computing Technology (CoE for ICT), hosted at Bellevue College The Center of Excellence for Information and Computing Technology's (CoE for ICT) three primary commitments in serving the community and technical college system (CTC) in its entirety are:

1. To provide high-quality, effective, free and/or reasonably priced innovative opportunities such as events, services, research, and resources for ICT educators.
2. To partner, recruit, and solicit advice and input, as well as sponsorships and in-kind donations, from industry to better align CTC students' educational experience to current and future workforce needs, and utilizing the expertise from the industry advisory board to inform strategic Center objectives.
3. To present transparent information related to state-funded work about Center products and programs so stakeholders are confident of:
  - cost-efficiencies;
  - a return on the annual investment;
  - the evaluative data demonstrating success; and
  - tangible system value.

## Announcement: Microsoft Faculty Summer Programming Workshops

Based on interest and demand, Microsoft will be scheduling free faculty training workshops (July-September). The proposed hands-on workshops (1-2 days) will provide a fairly deep dive into subjects that potentially include Metro Development, XAML, HTML 5/CSS, C#, and C++, with an emphasis on how to teach them by completing sample projects suitable for novice programmers.

[Read more...](#)



### Featured news and stories from the web:

- ▶ Doing Apps and Start-Ups While Still in High School - *New York Times Education*
- ▶ Computer Employment Up, Communications Lags - *Dice: Tech Advice*
- ▶ Will Google's Personal Assistant Be Creepy or Cool? - *New York Times Tech*
- ▶ Amazon Recruiting Director Offers Tips for Landing Its 90+ IT Jobs - *Dice (Tech News and Advice)*
- ▶ [more...](#)

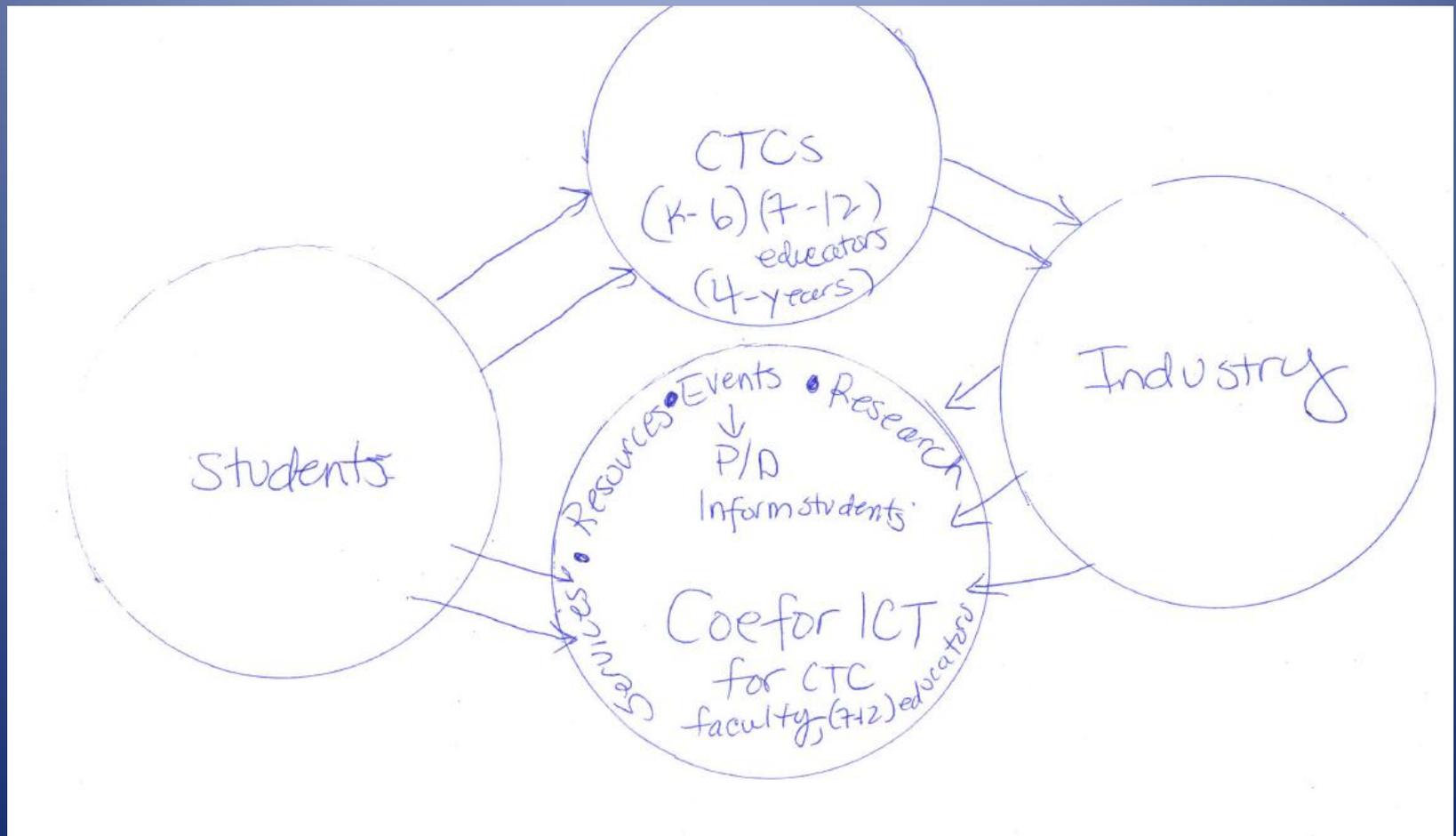
“Welcome 2 a programming language explosion/Java & .Net dominance r over. Let 1,000+ languages bloom & cross-pollinate. <http://t.co/iNr1mpb1> 4 days ago

“The IT industry is looking for graduates and workers who are capable of inventing the future...<http://tinyurl.com/colvrrh> 4 days ago

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# Center of Excellence's Relationships with K-14, Industry, and Students



# Programs of Study

The State-Level Programs of Study (POS) project is the result of the Comprehensive Technical Education (CTE); *Bill 6377*, passed in the 2007-2008 session of the Washington State Legislature. Centers of Excellence in Construction, Health Care, and Information Technology were designated to manage state-level POS projects and primarily convene multiple partners to:

- Develop a standard process and template for POS that can be portable across Washington,
- Verify data
- Develop a design that could be used in an online format

Over 350 secondary and post-secondary level educators, industry, labor, and workforce development professionals participated in this project.

The three project goals, each with its own unique research methodology produced the following deliverables:

- Programs of Study Template
- Users Guide
- Project Overview with State-Wide stakeholders (K-20 teachers, faculty, Para-professionals, students, Technical Preparation professionals, administrators, and industry)

The Center was invited to participate in a year-long Programs of Study (POS) project with the end goal identified as creating a POS template model. The Center updated the four IT templates based upon industry in-person interviews and a survey.

The Center discussed with OSPI and Workforce Board personnel:

- The four updated IT POS templates, (with computer support specialist (technician, help desk) POS no longer viable due to lack of employment opportunities currently and five years out; if the employment landscape changes, then this POS template may be reinstated.
- The best way to disseminate the templates and the ICT Directory's information.
- As part of the POS project, the Center was to discuss common course numbering articulation agreements. On May 22, 2012 the Center met with OSPI, SBCTC, the state's Workforce Board, and Tech Prep directors, and other educators, to discuss the IT POS work-to-date. The group determined the pathway of focus for statewide articulation (identify common courses) to be software engineering, development, and computer science.
- The Center identified four IT Programs of Study common courses and will invite approximately 40 educators in July and August of 2012 for a work session where courses will be reviewed for alignment and to begin the process exploring how best to implement common course numbering and articulation of the four courses.

# YourFuturein.IT

- The website name *Your Future in IT* was created as well as the purchase of all associated or variations of the website URLs (YourFuturein.IT).
- The design of the website's main page design and the site's navigation are 80% complete.
- The searchable database's structure consisting of almost 2,000 records of community, technical, four-year colleges and university degrees/certificates is 80% complete. A user will be able to search using one of the programs of study titles: (Programming and Software Development - Application Development and Software Engineering, Systems and Network Administration, Security and Systems, Web Design/Development and Digital Communications), or by the degree/certificate title, ZIP code, county, or city.
- A student account registration process is complete.
- A customizable programs of study form for students to both understand what courses to take and when, and also what they need to start preparing for and courses to take as they advance in an IT educational pathway has been completed.
- Let's look at the site. Remember, it is still Beta.



You are in the right website if you are:

- considering a career in Information Technology (IT)
- not quite sure if IT is your thing

**START**  
Planning Your Future!

## Is IT in your future?

- Even when the economy dips, the technology sector continues to look for talent
- There are tons of jobs out there in IT, and the trend is the sector will continue to grow
- You learn something cool every day
- [More reasons why you should consider IT...](#)



## Things you can do here

- [Take an IT career survey](#)
- [Prepare for a career in IT](#)
- [Find college and university IT programs](#)
- [Check out resources to help you succeed](#)

### Info for

[Parents](#) [Educators](#) [Counselors](#)

### General Info

[About this Site](#) [Disclaimer](#) [Privacy Notice](#)

What we will be adding to the site:Between now and September 15, 2012 and beyond

- An animated IT Interest Quiz titled, What is YOUR Future in IT?
- Analytics
- Global Search
- Ability to create PDFs
- Twitter feed
- Web Articles of note
- Video
- And, more...

# The Need for Software Engineers and Developers

A **software engineer** has one of the most in-demand, lucrative careers in the world. The number of individuals presently employed in this profession, 909,600, is almost double that of any of the other computer careers we reviewed. About 57 percent of software engineers design computer applications, and the remaining 43 percent design systems software.

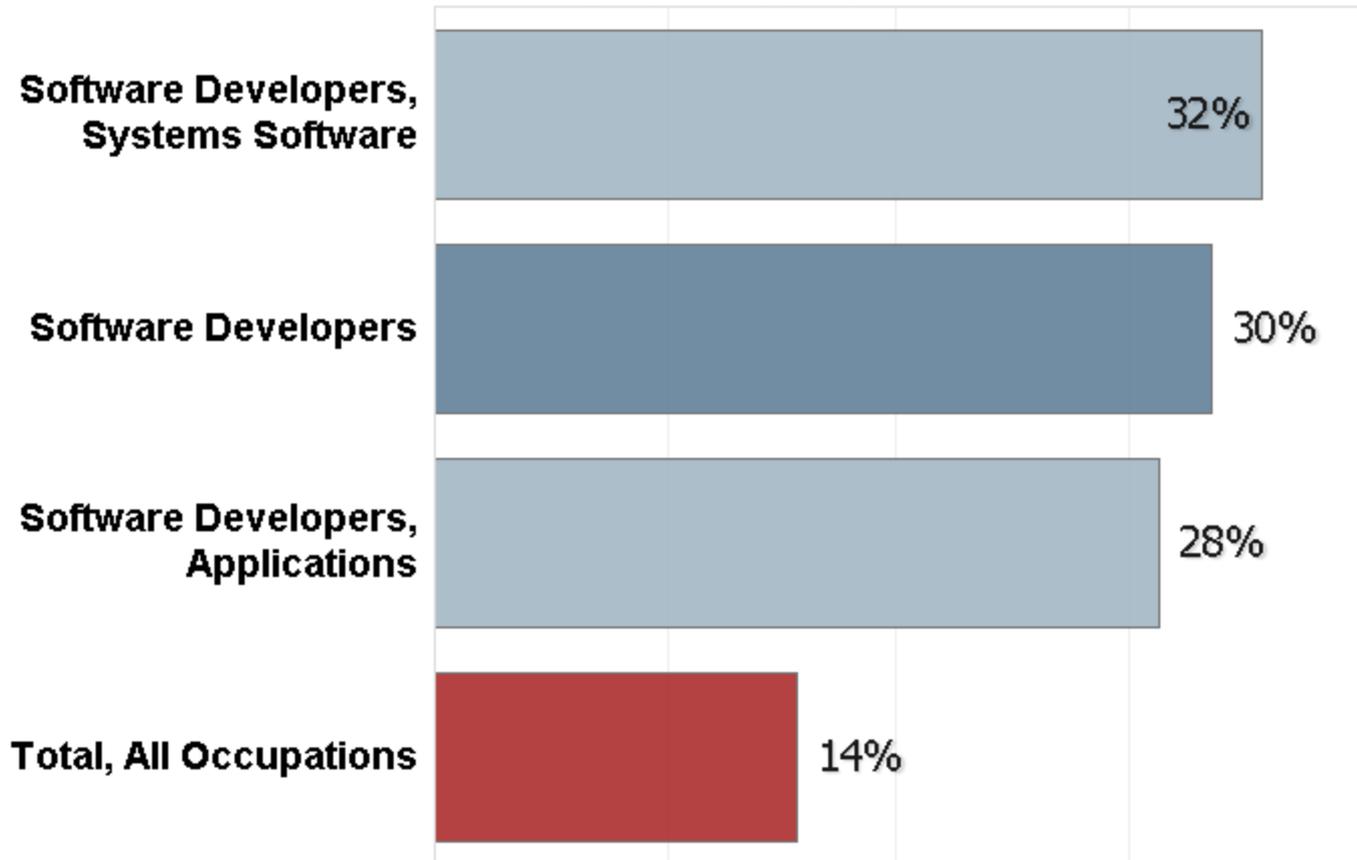
In 2012, software engineering was again ranked as the best job in the United States, this time by CareerCast.com

Employment of software developers is projected to grow 30 percent from 2010 to 2020, much faster than the average for all occupations. Employment of applications developers is projected to grow 28 percent, and employment of systems developers is projected to grow 32 percent.

The main reason for the rapid growth is a large increase in the demand for computer software. Mobile technology requires new applications. Also, the healthcare industry is greatly increasing its use of computer systems and applications. Finally, concerns over security should result in more investment in security software to protect computer networks and electronic infrastructure.

# Software Developers

Percent change in employment, projected 2010-20



Note: All Occupations includes all occupations in the U.S. Economy.

Source: U.S. Bureau of Labor Statistics, Employment Projections program

"Software engineering is one of the fastest growing fields in the world today," says Ben Amaba, worldwide executive for IBM Complex Systems. "What we're seeing across all other disciplines is that software is becoming an invisible thread tying all disciplines together. Software is now embedded in almost all devices, mechanical devices all talk with each other, and developing products using software is faster and poses fewer risks than physical prototyping."

From Dice.com and Indeed. Com (Seattle, WA and King County, WA respectively)

Adecco Engineering & Technical (8)

Amazon (534)

Ascent Services Group (4)

Bestica (5)

Collabera (7)

CompuCom IT Workforce Solutions (45)

Costco Wholesale Corporation (11)

CyberCoders (32)

Deloitte & Touche (12)

Microsoft (673)

Volt Computer Services (63)

Expedia, Inc. (39)

Compucom (29)

VlinkCo Corporation (17)

Triad Group (15)

Unlisted Company (14)

CIBER (14)

ALSTOM (14)

Bridge Consulting Group (13)

Goteti LLC (12)

Collabera (12)

Akvelon (12)

Nintendo of America Inc. (12)

T-Mobile (11)

# King/Snohomish Counties

<u>Career Title</u>	<u>Typical Annual Earnings</u> ⓘ	<u>Employment Outlook</u> ⓘ (openings/year)
<a href="#">Software Developers, Systems Software</a>	\$103,370	540
<a href="#">Software Developers, Applications</a>	\$95,688	1,107
<a href="#">Computer Programmers</a>	\$91,365	417

<b>SOC Code</b> ▲	<b>Description</b>	<b>2012 Jobs</b>	<b>2017 Jobs</b>	<b>Change</b>	<b>% Change</b>	<b>2011 Median Hourly Wage</b>
15-1021	Computer Programmers	11,013	10,979	-34	0%	\$43.83
15-1031	Computer Software Engineers, Applications	23,144	25,460	2,316	10%	\$45.03
15-1032	Computer Software Engineers, Systems Software	16,919	18,443	1,524	9%	\$47.52
	Total	51,076	54,882	3,806	7%	\$45.59