



Washington State
Centers of Excellence

COEWA.COM

Welcome to the Washington Centers of Excellence newsletter.

Our mission is to serve as the statewide liaisons to business, industry, labor, and the state’s educational systems for the purpose of creating a highly skilled and readily available workforce critical to the success of the industries driving the state’s economy and supporting Washington families.

GLOBAL TRADE & SUPPLY CHAIN MANAGEMENT

Securing the Supply Chain Forum: A Global Perspective of Food Protection

Wednesday, April 26, 2017

8:30 a.m.–3:30 p.m., followed by a networking reception

Highline College Building 2, Des Moines, WA

Food protection is at the intersection of food safety, food quality, and food defense. This forum focuses on food defense. Initially called “food security,” “food defense” focuses on protecting the food supply from intentional contamination, whether a variety of chemicals, biological agents or harmful substances by people who want to do us harm. Intentionality differentiates food defense from food safety. Join us for a forum that provides an opportunity for industry experts and educators to gather for a dialogue of key issues impacting food defense and a discussion of the feasibility of a certificate program in food defense. This forum is co-sponsored by the Centers of Excellence for [Homeland Security–Emergency Management](#) and [Global Trade and Supply Chain Management](#). For more information and registration, contact Kellie Hale: khale@pierce.ctc.edu.



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INFORMATION & COMPUTING TECHNOLOGY

Register for the Annual IT Futures Summit

Thursday and Friday, May 18–19, 2017

Register for FREE by Friday, April 28

Mercer Island Community & Event Center

Registration is open for the [Creating IT Futures Summit 2017](#). Join us for an action-packed two-day, free professional development opportunity designed specifically for IT faculty across the state.

Register for the conference at www.surveymonkey.com/r/2017ITSummit

Join us to learn about:

- A Robotics and AI program for Bellevue College
- An update on the statewide IT program marketing materials
- Industry presentations and/or panels
- The state-of-the industry, feedback, hot topics, and areas of interest for the IT faculty community.

Contact the Center with any questions at maureen.majury@bellevuecollege.edu

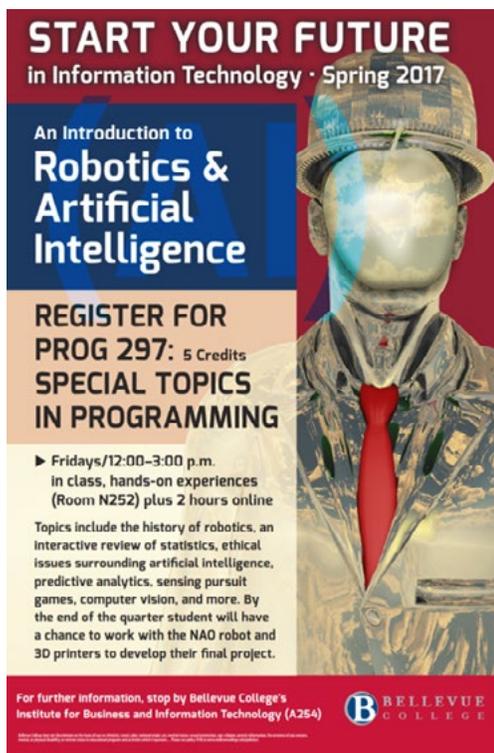
New IT BAS Programs Now Rolling Out And Offering Degrees

In addition to the IT BAS degrees currently available, there are new degrees:

- Centralia College is offering a BAS in Application Development: The Bachelor of Applied Science in Information Technology: Application Development (BAS-IT: AD) program has been designed to ensure graduates have a strong technical foundation in application and software development. <http://bachelors.centralia.edu/it/index.html>
- Whatcom Community College is offering a BAS in IT Networking: The Computer Information Systems BAS degree prepares students for common networking administration challenges as well as those that occur in key industry sectors that require specific focused expertise. Graduates will be prepared to enter the workforce as network administrators and related job categories, such as computer and information systems manager or computer network architect. http://whatcom.edu/academics/degrees-certificates/computer-information-systems/degrees-certificates#BAS_IT-Networking

The Center has updated the IT BAS resource page with a list of degrees/colleges on its website: <http://www.coeforict.org/resources/it-applied-baccalaureate-degree-resources/it-bas-degrees-currently-offered/>

Robotics & AI Program Development for Bellevue College



START YOUR FUTURE
in Information Technology · Spring 2017

An Introduction to
Robotics & Artificial Intelligence

**REGISTER FOR
PROG 297: 5 Credits
SPECIAL TOPICS
IN PROGRAMMING**

► Fridays/12:00–3:00 p.m.
In class, hands-on experiences
(Room N252) plus 2 hours online

Topics include the history of robotics, an interactive review of statistics, ethical issues surrounding artificial intelligence, predictive analytics, sensing pursuit games, computer vision, and more. By the end of the quarter student will have a chance to work with the NAO robot and 3D printers to develop their final project.

For further information, stop by Bellevue College's
Institute for Business and Information Technology (A254)

B BELLEVUE COLLEGE

The Center of Excellence for Information and Computing Technology, hosted at Bellevue College, is helping Bellevue and Spokane Falls Colleges to:

Create and implement a robotics and AI survey course with a variety of modules that will be offered in 2017 and 2018. Topics include 3D printing, time series analysis, statistics, machine learning, etc.

The Center then took the findings of the December 2016 robotics industry skills panel to inform the development of the course, and, the proposed robotics/AI AA and BAS.

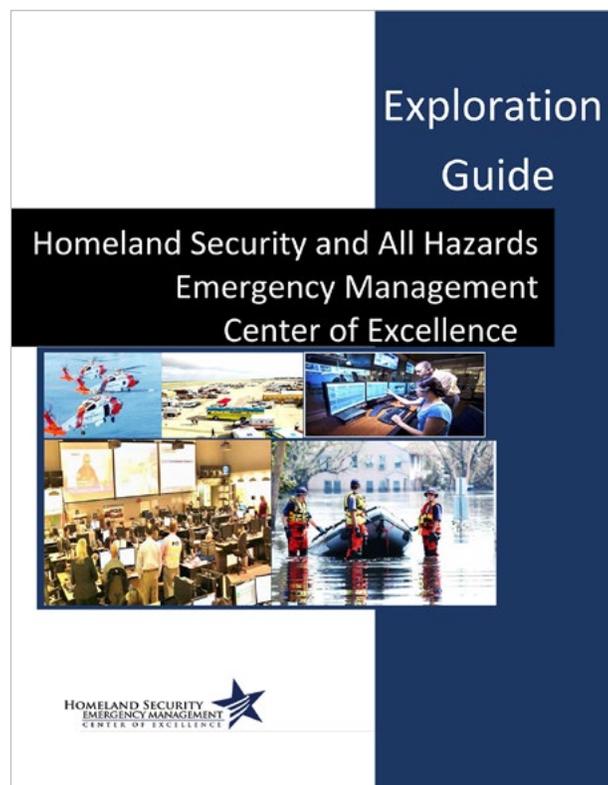
Demand for machine learning, robotics software developers, predictive analytics, as well as 3D printing and prototyping workers in Washington state is continuing to grow at a rapid pace. Thus, workforce demand increasingly provides a compelling rationale for the development of robotics and AI programs in Western and Eastern Washington.

HOMELAND SECURITY-EMERGENCY MANAGEMENT

HSEM Center of Excellence Receives Commendations

On March 29, the State Board for Community and Technical College staff, three members from the Workforce Education Council and Instruction Commission, along with Denise Yochum, President of Pierce College Fort Steilacoom, and Jo Ann Baria, Vice President for Workforce, Economic & Professional Development, joined members of the Center's advisory board and staff for its biennial site visit.

The purpose of the visit is to learn about the Center and how it is working with its industry sector and CTC colleges. "Reviewers left the session with a greater understanding of not only the Center's purpose and activities, but that of Homeland Security and Emergency Management as a career field," said Chris Johnson, chair of the advisory board. Along with a presentation and discussion the Center's review team received the new [HSEM COE Exploration Guide](#) which provides comprehensive information about the Center's history and work over the past two years.



Exploration
Guide

Homeland Security and All Hazards
Emergency Management
Center of Excellence

HOMELAND SECURITY
EMERGENCY MANAGEMENT
CENTER OF EXCELLENCE

The Center received several commendations from the review team including compliments on the work the Center is doing as part of its employer engagement and Work Experience Marketplace initiatives. "We loved the internship piece," said Katherine Mahoney, SBCTC Program Administrator. "Your focus on enhancing and expanding work experience opportunities through internships builds capacity at our local campuses." The Center was also commended for its regional staffing model which reflects the Center focus on maintaining a SBCTC system-wide approach. Additional information about the Center's activities and accomplishments can be found on its website at [HSEM COE About Us: http://wp.pierce.ctc.edu/blog/hsemcoe/](http://www.hsemcoe.org)

CONSTRUCTION & MARINE MANUFACTURING AND TECHNOLOGY



SAVE THE DATE: March 8, 2018 • tradeempower.com

EmPower Women's Leadership Conference draws over 250 attendees to inaugural event

March 8th, 2017—The Construction Center of Excellence and Center of Excellence for Marine Manufacturing and Technology hosted the first EmPower: Women's Leadership Conference to rave reviews. Over 250 attended the event that showcased women who had transformed their careers, celebrated rising stars and trailblazers, and featured a dynamic keynote by Dr. Rita Cameron Wedding on implicit bias.

Watch the conference recap and the archived session recordings at tradeempower.com

Webinar: recruiting and retaining women in the trades

The trades need the help of education and training to provide not just a skilled but also diverse workforce. To learn more about the Recruitment and Retention of Women watch the webinar created in a joint effort by the Construction Center of Excellence, Center of Excellence of Marine Manufacturing and Technology and ANEW at: <https://www.constructioncenterofexcellence.com/blog/women-in-nontraditional-careers>



CLEAN ENERGY & CONSTRUCTION

2017 Best Practices Summit: "Solutions for a Multi-Generational Workforce"

June 1-2, 2017

Centralia College TransAlta Commons



The 2017 *Energy and Construction Best Practices Summit* is bringing together leaders from Washington's apprenticeship community, including employers; unions and labor-management partnerships; and education to share successes and challenges in expanding or diversifying apprenticeship in the energy, construction and manufacturing industries. Join us to hear how the confluence of a looming skills shortage and an education system increasingly looking for alternative pathways to sustainable and secure employment is giving rise to apprenticeship programs as a win/win solution for developing the 21st century workforce.



Keynote Mark Taylor will share how the multi-generations are challenged in the workplace and classrooms with a mixture of four generational cohorts; older Traditionals, mature Boomers, mid-career Xers and our youngest group from Generation NeXt. Learn about navigating, managing, leading, and teaching, especially with changing generational dynamics, issues with worker availability and readiness, and the need for knowledge transfer, requires being able to understand, communicate with and lead everyone, from each generational group.

Register for the summit at <http://cleanenergyexcellence.org/summit/>

CAREERS IN EDUCATION

The Center of Excellence for Careers in Education would like to congratulate the graduating class of the 2016-2017 Deans' Academy: Loyal Allen, Jr., Chris Bell, Mostafa Ghous, Char Gore, Dani Gray, Sarah Gray, Walter Hudsick, Jayme Kaniss, Alison Pugh, Rickitia Reid, Barry Robinson, Theresa Stalick, and Iulia Zavadov.

We are also pleased to announce the recruitment for the 9th cohort of the Deans' Academy coming 2017-2018. Sponsored by the Center of Excellence and Workforce Education Council, the Dean's Academy is a year-long training opportunity designed for individuals who aspire to become workforce leaders in the community and technical college system.



Look for applications on the Center's website in May: www.careersined.org.

AGRICULTURE

Each year, students from some of Washington's agriculture related programs compete for top three placements in order to qualify for The National Postsecondary Agricultural Student Organization (PAS) competition.

This year, 22 students from Columbia Basin College, Spokane Community College, and Walla Walla Community College earned the option to attend the national conference in St. Charles, Missouri.

The Agriculture Center of Excellence was excited to be able to pay entry fees for each student that placed in the top two at state, as well as providing support at the conference (Lindsey Williams attended in an advisory role).

Washington students earned a total of 12 awards at nationals (placing in the top 3), with roughly 600 students in attendance.

AEROSPACE

1st Quarter 2017 was a period of engagement for the COE for Aerospace and Advanced Manufacturing. The Center attended the annual Pacific Northwest Aerospace Alliance Conference (PNAA) in February and participated in scholarships for two Washington students who are studying to become commercial pilots: Julie Baker who is attending Green River College, and Joshua Oord who is attending Big Bend Community College.

Another area of engagement is through the TechHire grant, which allowed the COE to work with five pilot community colleges, and six industry partners, to engage in the development of Mechatronics programs for students. Through this project, the pilot schools are rolling out new programs and are hiring instructors to teach curriculum based upon competencies in robotics, testing, and equipment maintenance.

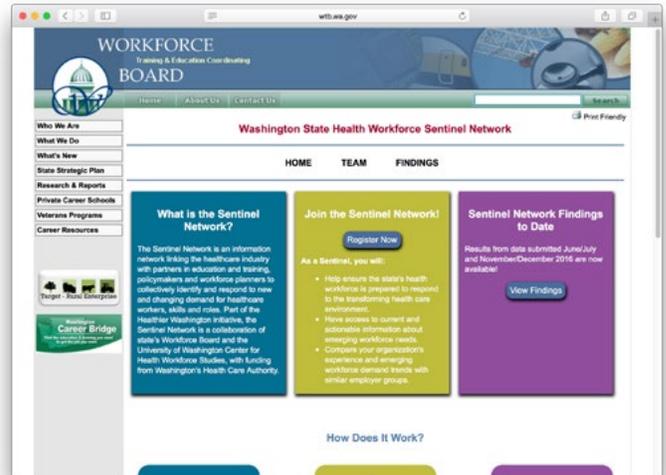
Per the TechHire grant application packet, "Last year, Washington State had 12,632 job postings requiring comprehensive Mechatronics-skills, including 7,445 postings (59%) within King and Snohomish Counties where the growth rates for these jobs are 22% and 18%, respectively (compared to 13% nationwide)." Many manufacturing plants are employing robotics to increase production and accuracy, and there will be jobs available in Washington to support this effort.



ALLIED HEALTH

Throughout winter quarter, the Allied Health COE shared the work of the community college health workforce programs and its health workforce development partnerships to multiple settings and audiences. In January, the Center introduced the Center of Excellence and the Sentinel Network, a health workforce research project led by the UW Center for Health Workforce Studies to the Washington State Healthcare Recruiters Association, at the Rural Health Conference in SeaTac in February and to the Healthier Washington Accountable Communities of Health Leadership Convening in March.

The Sentinel Network is an information network linking the healthcare industry with partners in education and training, policymakers and workforce planners to collectively identify and respond to new and changing demand for healthcare workers, skills and roles. Part of the Healthier Washington initiative, the Sentinel Network is a collaboration of state's Workforce Board and the University of Washington Center for Health Workforce Studies, with funding from Washington's Health Care Authority. A link to the Sentinel Network and its findings can be found here <http://www.wtb.wa.gov/HealthSentinel/>



Additionally, the AH COE in partnership with Highline College and the Northwest Regional Primary Care Association provided a presentation on March 29, 2017 at the Chair Academy in Orlando, Florida. The presentation, Activating Community Health Center and Community College partnerships for health workforce benefit highlighted the collective impact work of the Center, various community colleges in Washington State and their community health center partners.

The AH COE will be sponsoring a health workforce development roundtable with industry partners at the Northwest Regional Primary Care Association Conference in Spokane, WA. Registration and event information can be found here: http://www.nwrpca.org/events/event_details.asp?legacy=1&id=882252#agenda