

## 2013 Science & Engineering Festival

Brought to you by UW Gear Up & UW Genome Sciences Education Outreach

For more information about the festival, please visit: <http://uwgearup.com/index.html>



Click on icons to the left to learn more about each Career Cluster

	The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.
	Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.
	Involves the design, development, support and management of hardware, software, multimedia and systems integration services.
	Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.



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For more information about all 16 Career Clusters, visit:  
<http://www.k12.wa.us/CareerTechEd/Clusters/default.aspx>

### Career Pathway: Agriculture



Festival Exhibitors	Title or Description	Room	Contact	Career Pathway
1. Washington State University Sweet Cherry Research	Intelli-GEN-Design – Fruit of the Future	E	<a href="#">Website</a>	
2. Washington State University Tree Fruit Research & Extension Center	Apple breeding in Washington State	E	Website: <a href="#">Tree Fruit Research</a> <a href="#">Horticulture</a>	

### Career Pathway: Health Science

3. Center for Community Health Promotion / Fred Hutchinson Cancer Research Center	“CASPER” the Colon	E	<a href="#">Website</a>	 + STEM, Information Technology
4. Fred Hutchinson Cancer Research Center (FHCRC)	Hands-on activities related to biomedical research.	E	<a href="#">Website</a>	

<b>Festival Exhibitors</b>	<b>Title or Description</b>	<b>Room</b>	<b>Contact</b>	<b>Career Pathway</b>
5. Fuerte Fitness, Inc. – Personal Training Studio (Seattle, WA)	Show Us Your Inner Athlete	E	<a href="#">Website</a>	 Health Science
6. Heritage University's Medical Laboratory Science Program	Medical Laboratory Science: An introduction to microscopy, phlebotomy (with fake blood), and blood typing	E	<a href="#">Website</a>	 Health Science + STEM
7. Oregon Museum of Science & Industry (OMSI)	Zoo in You: Exploring the Human Microbiome	E	<a href="#">Website</a>	 Health Science + STEM
8. UW Center for Ecogenetics and Environmental Health	Your DNA: Private or Shared?	E	<a href="#">Website</a>	 Health Science + Agriculture
9. UW Neurobiology & Behavior Outreach Program	Visual and Audio Illusions	E	<a href="#">Website</a>	 Health Science
10. UW School of Medicine: Center for Equity, Diversity and Inclusion & Native American Center of Excellence	Picture Yourself as a Doctor or Dentist	E	Website: <a href="#">Center for Equity</a> <a href="#">Native American Center</a>	 Health Science
11. UW School of Nursing	ONE-DA: Online Neuroscience Education about Drug Addiction & How do I learn?	E	<a href="#">Website</a>	 Health Science
12. Yakima Valley Community College & Pacific Northwest University of Health Science (PNWU)	<i>Includes:</i> Allied Health presenters from Yakima Valley Community College, a Vet Tech Simdog, Dental Hygiene students, and PNWU students.	E	Website: <a href="#">Allied Health</a> <a href="#">Vet Tech</a> <a href="#">Dental Hygiene</a> <a href="#">PNWU</a>	 Health Science
13. Yakima Regional Medical and Cardiac Center	Biomedical career table	E	<a href="#">Website</a>	 Health Science



### **Career Pathway: Information Technology**

14. DigiPen: Game Development Education	Hands-on computer integrative technology and educational gaming.	E	<a href="#">Website</a>	 Information Technology + STEM
15. UW Departments of Computer Science and Engineering & Human Centered Design and Engineering	Milk Banking – Reducing mother-to-infant HIV transmission through milk pasteurization	E	Website: <a href="#">CS &amp; Eng</a> <a href="#">HCD &amp; Eng</a>	 Information Technology + Health Science, STEM







## Career Pathway: STEM

Festival Exhibitors	Title or Description	Room	Contact	Career Pathway
16. Laser Interferometer Gravitational Wave Observatory (LIGO)	Hands-on, interactive activities related to the exploration of the Universe.	D	<a href="#">Website</a>	
17. ExoLabs, Inc.	Igniting Curiosity with the Focus camera, microscopes, iPads, slides, and more.	D	<a href="#">Website</a>	
18. Museum of Flight: Aviation History	Hands-on activities.	D	<a href="#">Website</a>	 + Information Technology
19. Seattle's Hub for Industry-driven Nanotechnology Education (SHINE)	Hands-on activities promoting awareness of the principles of nanoscience.	D	<a href="#">Website</a>	 + Information Technology
20. UW College of Engineering	Hands-on, interactive activities, including the World of Electricity and a Glimpse into Materials, Science and Engineering.	D	<a href="#">Website</a>	 + Information Technology
21. UW Departments of BioEngineering & Anesthesiology	Sowing the Seeds of Neuroscience	D	Website: <a href="#">Bioengineering</a> <a href="#">Anesthesiology</a>	 + Information Technology, Health Science
22. UW Genome Sciences	Genes don't always come in pairs!	D	<a href="#">Website</a>	 + Information Technology, Health Science
23. Washington NASA Space Grant Consortium; Pre-Major in Astronomy Program (Pre-MAP)	Will have some hands-on activities related to astronomy/planetary science	D	Website: <a href="#">NASA</a> <a href="#">Pre-MAP</a>	
25. Wild Horse Wind & Solar Facilities, Puget Sound Energy	Hands-on activities involving a six-foot wind turbine model, wind tunnel, and Kidwind model.	D	<a href="#">Website</a>	
26. Yakima Valley Community College (YVCC)	Engineering, Biology, Physics, and Chemistry Programs	D	<a href="#">Website</a>	
27. Yakima Valley/Tri-Cities MESA: WSU <i>only March 26 from 9am-8pm</i>	Hands-on activities related to oceans, rivers or other engineering themes.	D	<a href="#">Website</a>	






**Additional Exhibitors, Student & Community Resources:**

<b>Festival Exhibitors</b>	<b>Title or Description</b>	<b>Room</b>	<b>Contact</b>	<b>Resources</b>
28. Society for Advancement of Chicanos & Native Americans in Science (SACNAS)	"Match a Scientist"	Lobby	<a href="#">Website</a>	<b>Student Resource</b>
29. UW Office of Minority Affairs & Diversity (OMAD) & College Assistance Migrant Program (CAMP)	Office of Minority Affairs & Diversity (OMAD), UW: Recruitment and Outreach (R/O)	Lobby	<a href="#">Website</a>	<b>Student Resource</b>
30. UW School of Medicine: SingAboutScience.org	Can You Learn Science Faster With Music?	D	<a href="#">Website</a>	
31. ESD 105 STEM Showcase	Projects highlighting the impact of STEM on student learning.	Lobby	<a href="#">Website</a>	






**Museum Exhibits, and VEX Robotics Competition:**

<b>Festival Exhibitors</b>	<b>Title or Description</b>	<b>Room</b>	<b>Contact</b>	<b>Career Pathway</b>
32. Museum of Flight: Aviation History	Planetarium.	400, 500	<a href="#">Website</a>	
33. Museum of Flight: Aviation History	Robot Garage.	F	<a href="#">Website</a>	
34. Oregon Museum of Science & Industry (OMSI)	Hands-on activities including brainteasers, forest puzzles, displays of light and physics, natural science items, dinosaur fact color sheets, nature rubbings, and microscopes.	E	<a href="#">Website</a>	
35. Pacific Science Center	Inspiring hands-on, interactive activities involving science and technology.	100, 600	<a href="#">Website</a>	
36. Pacific Science Center	Super Cool Science Shows!	TBD	<a href="#">Website</a>	
37. Vex Robotics: Competition	University of Washington GEAR UP STEM VEX Robotics Competition.	A-C	<a href="#">Website</a>	

**Festival Workshop Presenters:** See [Workshop Schedule](#) for dates/times of workshops and to Sign-up!

Festival Exhibitors	Title	Room	Dates/Times	Career Pathway
38. Trez Buckland and Jenny Williamson, <a href="#">UW School of Nursing</a>	How do I learn?	200	<b>3/26 &amp; 3/27:</b> 9:30-10am <b>3/26 &amp; 3/27:</b> 10:30-11am	 Health Science
39. Trez Buckland and Jenny Williamson, <a href="#">UW School of Nursing</a>	ONE-DA: Online Neuroscience Education about Drug Addition	200	<b>3/26 &amp; 3/27:</b> 12:30-1pm <b>3/26 &amp; 3/27:</b> 1:30-2pm	 Health Science
40. Theresa Britschgi and Marissa Vignali, <a href="#">BioQuest, Seattle BioMed</a>	Sweet & Tangy Solutions to Cholera	300	<b>3/26:</b> 9:30-10am <b>3/27:</b> 12:30-1pm	 Science, Technology, Engineering & Mathematics + Health Science
41. Erika Harnett, <a href="#">UW NASA Space Grant</a>	My random path to becoming a scientist and faculty at the University of Washington.	300	<b>3/26:</b> 12:30-1pm <b>3/27:</b> 9:30-10am	 Science, Technology, Engineering & Mathematics
42. Adriana Medina, <a href="#">Fuerte Fitness, Inc. – Personal Training Studio</a> (Seattle, WA)	Traditional food SUPERSIZED?	300	<b>3/26:</b> 1:30-2pm <b>3/27:</b> 1:30-2pm	 Health Science

**Bilingual Speakers: Tuesday, March 26, 2013 (4-8pm)**

Festival Exhibitors	Title	Room	Time	Career Pathway
43. Rosa Solorzano and Thomas Hauer, <a href="#">Yakima Regional Medical and Cardiac Center</a>	Jobs & Health Care related to STEM: Minority Opportunities in Healthcare	200	4:00-4:30pm	 Health Science
44. Cintia Gill, <a href="#">Fuerte Fitness, Inc. – Personal Training Studio</a> (Seattle, WA)	America's Childhood Health Epidemic	200	4:45-5:15pm	 Health Science
45. Dianne Figlewicz Lattemann, Ph.D., <a href="#">VA Puget Sound Health Care System &amp; UW</a>	What is Type 2 diabetes? (English) Que es diabetes del Tipo 2? (Spanish)	300	5:30-6:00pm	 Health Science
46. Marissa Vignali, Ph.D., <a href="#">BioQuest, Seattle BioMed</a>	Washington State: a Terrific Place to Stop Malaria (English) El Estado de Washington: un Lugar Fantastico para Detener a la Malaria (Spanish)	300	6:15-6:45pm	 Science, Technology, Engineering & Mathematics + Health Science
47. Johnnie Orozco, MD, PhD <a href="#">Fred Hutch Cancer Research Institute</a>	My Career Pathway and How I Got Help Along the Way (English) Mi Camino a la Medicina y Los que me Ayudaron (Spanish)	300	7:00-7:30pm	 Health Science