

Workshop Title	Workshop Description	Presenter(s)	Presenter's Employer
<b>Virus Hunters</b>	Girls will explore the basics of immunology and how the body fights invaders like bacteria and viruses. They will also explore how researchers identify viruses through gel electrophoresis using the colored candy as an example "pathogen".	Amy Stone	Center of Innate Immunity and Immune Disease
<b>Secret Life of Plankton</b>	Engage in the work of a marine biologist by studying the base of the marine food chain. Learn how to catch these free floating critters, observe plankton under the microscope and create models that replicate their lifestyle.	Ardi Kveven	Everett CC
<b>Trailblazers</b>	The Women of the Boeing Company celebrates the women of Boeing—those who were the first to work at the fledgling company in 1916, to become pilots and engineers, to work on the factory lines, and to take on leadership roles. These women paved the way for female engineers, aviators, and executives for decades to come. The trailblazers on the panel will tell their stories, talk about what inspired them, and discuss what it takes to get into exciting engineering and	Betsy Case, Suzanna Darcy, Sandi Jeffcoat, Trish Beckman	Boeing Trailblazers

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	aviation careers.		
<b>Frozen!</b>	How do we keep cells alive even though we have to freeze them? We will use a Red Rover-esque game to explore movement of nutrients and waste in and out of cells even while they're frozen.	Caitlin Reinhart	Biolife Solutions
<b>Using DNA to Solve Crimes</b>	While not quite as glamorous as portrayed on the TV show CSI, the field of forensic science is a great way to apply science towards helping the community. Get a brief introduction to the field's many disciplines (drugs, guns, fingerprints, and more!), as well a little more in-depth look at how DNA can be used to help solve crimes.	Carol Vo	Washington State Patrol
<b>So You Want to Work in an Aquarium?</b>	There are many different jobs in an aquarium, some that may surprise you! Get to know what it takes to keep the Seattle Aquarium critters and visitors happy and healthy, and we'll spotlight a day in the life of one of our Bird and Mammal Biologists.	Darcie Larsen	Seattle Aquarium
<b>You CAN Predict the Future!</b>	Knowing what to expect helps us make decisions and take	Dena Thompson, Zoe Gouin	Symetra

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	<p>calculated risks. Actuaries use probability and statistics to make predictions about the future. In this session we will introduce you to the foundations and ideas that we employ in our everyday job! As a team we will look at problems involving everyday objects and situations.</p>		
<b>So you want to work in an Aquarium?</b>	<p>So You Want to Work in an Aquarium?</p>	Darcie Larson	Seattle Aquarium
<b>How to Make Beautiful Smiles</b>	<p>Learn about a career in dentistry.</p>	Dr. Meenakshi Tomar	Edmonds Bay Dental
<b>Earthquakes</b>	<p>Are there earthquakes in Washington? Yes – EVERYDAY! Learn about where earthquakes occur and how to stay safe once the shaking starts!</p>	Erin Wirth	University of Washington
<b>Edge of Knife</b>	<p>Surgery can improve some diseases, for others it can do nothing. We will explore the world of surgery through x-rays and photos and discuss the evaluation and treatment options of various conditions.</p>	Dr. Karen Hunter	Providence Hospital
<b>It's a Robotic World</b>	<p>We live in an electronic world. Soon, it will be a robotic one too. Learn about robotics and</p>	Kay Latimer	Edmonds CC

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	electronics with hands-on activities that involves building a small digital circuit with a flashing LED, controlling a robot, and viewing your voice on an oscilloscope.		
<b>The Power of Data</b>	When you post on social media, 'like' a friend's comment or picture, click on a link or browse a website do you think about who might be collecting that data and what they might be doing with it? Can your favorite retailer predict what your next purchase will be and when you will make it based on the previous purchases you've made? Data is powerful. We leave a trail of it where ever we go. In this workshop you will learn just how powerful data is and get a glimpse of the many job opportunities available to powerful girls just like you!	Kris Hansen	Inspirus
<b>Technology Meets Art</b>	See how technology has enhanced the medium of theater lighting. Learn how a lighting designer works through a show to create mood and atmosphere with light.	Kristi Matthews	Taproot Theater
<b>How to Write the Future with</b>	Learn how YOU can end world hunger, cure diseases like Zika virus, and save the environment	Lindsey Pino	UW

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<b>Gene Editing</b>	using a technology called gene editing.		
<b>Dare to Care, Be a Nurse</b>	Why do people choose a nursing career? What character traits do people need to be successful in a nursing career? What is training like? What about the working conditions? Learn the answers to these questions and more!	Lori Cross	Nuring
<b>Engineering Design – Creating Products that Work</b>	Have you ever wondered how products are designed? Learn the process designers and engineers use to make the products you use every day, from someone who has helped design products for companies from Nike to Panasonic. We'll choose a topic and design a product together!	Martine Stillman	Synapse Product Development
<b>Wiggle Wobble, but Don't Fall!</b>	What makes a building or a bridge stand up? What shapes are the most stable? Buildings aren't supposed to move, or are they? Come play around with structural stability and flexibility as we explore the job of a structural engineer.	Melissa White	Dibble Engineers
<b>Squeezing Electricity From Crystals</b>	Have you ever wondered how light up shoes work? Learn how piezoelectricity, the	Anna Murray	UW-SWE

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	phenomenon behind this, can teach us about the nanoscale world!		
<b>Why Should I Do My Math Homework?</b>	Ever wonder why you should do your math homework? Is it just to get a good grade? In this workshop we'll explore the many careers available with a math background (think Seahawks or Mariners!). Come learn why doing your math homework is important for more than good grades!	Nancy Lee	Venuti & Associates
<b>What is a Micropipette?</b>	Come and learn how to use a micropipette. Create some pictures and have some fun! You will even have a chance to design your own pipette art recipe.	Penny Lefavour	Edmonds School District
<b>The Nose Knows!</b>	How well can you smell? Come learn how the nose functions and the importance of chemical molecules behind smell.	Dr. Reitha Weeks	Scientist, Educator, Volunteer
<b>There's Aeronautics in My Kitchen!</b>	Students will complete comparisons between home economics and aerospace manufacturing and measure results	Rosemary Brester	Hobart Machine
<b>Designing with</b>	Looking at the importance on diversity in engineering through	Samantha Heim	Boeing

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<b>Diversity</b>	a design challenge. Will look into the different mind sets for designing a product for depending on the clientele.		
<b>Go Big or Go Better!</b>	A fast-paced team design competition where you will work to create the next world wonder! You will learn to set a design direction, create and execute a plan for constructing it, and negotiate surprise twists along the way – just like architects do – while you create something the world has never seen before.	Sarah Holstedt, Michelle Moore	Interior Callison
<b>The Everybody Locker Room</b>	Students will examine a design problem around school locker rooms. This challenge will provide a quick understanding of how architects affect the built environment. The conversation will include safety, privacy, religion, inclusiveness, accessibility, building codes and School Board policy.	Taine Wilton, Corrie Rosen	Edmonds School District, Mahlum Architecture
<b>Can Anyone Use This Building?</b>	Students will work in teams to explore how any space in or out is accessible to others and what makes it that way. They will also discover the training needed to be an architect.	Vicki Somppi	Workplace Architecture

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<b>Bioengineering: A Journey in Research</b>	In this workshop you will learn about the career of a bioengineer and bioengineering challenges from glucose sensing to stents.	Mary Wallingford, Mandy Williams	Giachelli Lab UW, UW Bioengineering
<b>Urban Stream Investigators</b>	Have you ever thought about how humans impact the water cycle? What about the carbon cycle? We will work together to investigate our impact on urban systems and will brainstorm about how to keep our water healthy! In addition, we will provide a sneak peak into the life of an undergraduate doing scientific research at the University of Washington!	Rachel Yonemura, Corrine Hoffman	UW Environmental Science
<b>Discover Nano</b>	Nanotechnology is everywhere! From clothing to sunscreens, nanotechnology is used in many everyday applications. Come participate in hands-on activities to discover what nanotechnology is and how it is changing our lives in unusual ways.	Kristine Schroeder	North Seattle center director for Shine
<b>Turning STEM Interest into a Career</b>	You've identified your career field, gotten the degree \ certification \ training – Now how do you get in the door? What demonstrable skill sets set you apart as the One to Hire in an Interview? Jen will	Jenn Madsen	Edmonds School District- Info Tech Supervisor



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	<p>show you how to take your career from Entry Level to Dream Job. She will teach you what you need to know about Soft Skills employers need and look for.</p>		
<p><b>Hungry? Let's Order Pizza Electronically!</b></p>	<p>Create a ROBOT that orders your favorite pizza on a click of a button with Amazon Web Services.</p>	<p>Simmi Parmar</p>	<p>Amazon</p>
<p><b>The Hidden Levels and Easter Eggs</b></p>	<p>Ever wonder what it's like working for a game company? Curious to learn about all the different jobs that exist at such a place? Join a self-proclaimed gamer, geek, and employee of a game company for a lively and interactive Q&amp;A session. Ask that question you've always wanted to ask, but didn't have anyone to ask it to.</p>	<p>Amber Eagar</p>	<p>Gaming Industry/Coding</p>