SCIENCE PROFESSIONAL DEVELOPMENT OPPORTUNITIES AND RESOURCES

1. **Washington STEM:** **www.washingtonstem.org**

   Description: Washington STEM launched an initiative called STEM-PD in 2013 to equip teachers with technology from IRIS Connect and the supporting tools and resources to overcome these logistical challenges. The technology enables teachers to have high-quality professional development and take control of their own learning. Currently in its third year, they are collaborating with educators in 42 schools across Washington to integrate this technology into schools' existing PD activities.

   Professional Development: http://www.washingtonstem.org/Why-Stem/STEM-Lab/STEM-PD#.WHZlN-3TlLh

   Resource Hub: http://www.washingtonstem.org/Resource-Hub/#.WHZm_1yMCuQ

2. **Washington State LASER (Washington State Leadership & Assistance for Science Education Reform: https://www.wastatelaser.org/**

   Description: Washington State Leadership and Assistance for Science Education Reform (LASER) is a public/private partnership launched in 1999 using a science education reform model developed by the Smithsonian Science Education Center (formerly the National Science Resources Center). The Washington State LASER partnership is led by the Science and Education Division of Pacific Science Center in Seattle and the Office of STEM Education at the Pacific Northwest National Laboratory. Pacific Science Center serves as the fiscal agent for the partnership and manages LASER's statewide technical assistance efforts.

   Professional Development: https://www.wastatelaser.org/upcoming-professional-development/

   Resources & Materials: https://www.wastatelaser.org/resources/

3. **OSPI STEM: http://www.k12.wa.us/STEM/default.aspx**

   Description: A variety or resources provided by the WA state OSPI.

   - Why is STEM important?
   - What is STEM literacy?
   - How is OSPI supporting STEM education?
   - What are STEM Lighthouse Schools?
   - Does OSPI award grants for STEM projects?
   - What other resources do you recommend?
   - Have a question? Contact us

4. **WSTA (The Washington Science Teachers Association): https://wsta.wildapricot.org/**

   Description: WSTA an organization dedicated to advocating and promoting quality science education at all levels of instruction.

WSTA Conference 2017: https://wsta.wildapricot.org/page-1863497

Professional Development: https://wsta.wildapricot.org/professional-development

Resources: https://wsta.wildapricot.org/informal-science

5. **NSTA (National Science Teachers Association):** http://www.nsta.org/

   Description: National Science Teachers Association is the largest organization in the world committed to promoting excellence and innovation in science teaching and learning for all. NSTA's current membership of 55,000 includes science teachers, science supervisors, administrators, scientists, business and industry representatives, and others involved in and committed to science education.

   Conferences and Professional Learning: http://www.nsta.org/conferences/

   Books & Resources: http://www.nsta.org/publications/

6. **ITEEA (International Technology and Engineering Educators Association):** https://www.iteea.org/

   Description: ITEEA's mission is to advance technological capabilities for all people and to nurture and promote the professionalism of those engaged in these pursuits. ITEEA seeks to meet the professional needs and interests of members as well as to improve public understanding of technology, innovation, design, and engineering education and its contributions.

   Annual Conference: https://www.iteea.org/89867.aspx

   Professional Development: https://www.iteea.org/STEMCenter/EbD-PD.aspx

   Resources: https://www.iteea.org/Resources1507.aspx

7. **ACTE (Washington Association for Career and Technical Education):** http://www.wa-acte.org/

   Description: Washington ACTE's mission is to support their members in providing high quality CTE opportunities for all students in Washington State. WA-ACTE CORE PURPOSE is to provide leadership and services to their members as they prepare students for lifelong career success.

   Professional Development: http://www.wa-acte.org/confsummer.php and http://www.wa-acte.org/confupcoming.php

   Resources: http://www.acteonline.org/

8. **PLTW (Project lead the Way):** https://www.pltw.org/

   Description: The mission of Project Lead the Way (PLTW) is to "Prepare Students for the Global Economy." Their STEM based programs can be found in more than 5,000 elementary, middle, and high schools across the country. The intensive teacher professional development program is a key

differentiator between PLTW and other STEM based programs.

State Conference (Seattle University): https://www.seattleu.edu/scieng/outreach/project-lead-the-way/state-conference/

Professional Development: https://www.pltw.org/our-programs/professional-development

Resources: https://www.pltw.org/experience-pltw/resources

9. **Alliance for Excellent Education:** http://all4ed.org/

Description: The Alliance for Excellent Education focuses on America's six million most at-risk secondary school students-those in the lowest achievement quartile-who are most likely to leave school without a diploma or to graduate unprepared for a productive future

Webinar & Events: http://all4ed.org/webinar-event/jan-12-2017/

10. **Discovery Education: Connect the Dots STEM Initiative:** http://www.discoveryeducation.com/STEM/connect-the-dots.cfm?CFID=2223940&CFTOKEN=55533055

Description: Discovery Education offers a breadth and depth of digital media content that is immersive, engaging and brings the world into the classroom to give every student a chance to experience fascinating people, places, and events. All content is aligned to state standards, can be aligned to custom curriculum, and supports classroom instruction regardless of the technology platform.

- Interactive digital textbooks
- Engaging standards-aligned content
- Comprehensive professional development
- Assessment Services
- Virtual Experiences
- Learning Communities

Professional Development: http://www.discoveryeducation.com//what-we-offer/professional-development/explore/?campaign=flyout_admin_pd

Resources: http://www.discoveryeducation.com/what-we-offer/community/explore-your-community.cfm