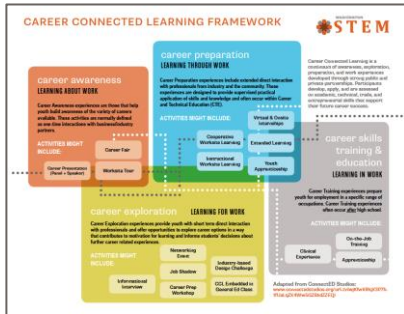


# WASHINGTON STEM CAREER CONNECTED LEARNING TOOL BOX

The following resources and studies were developed by Washington STEM in collaboration with STEM Networks, partners, and other stakeholders.



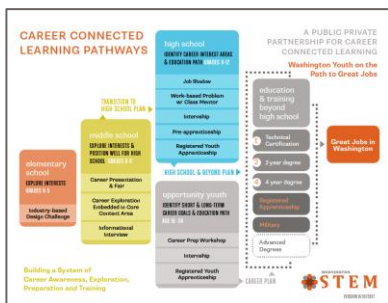
## 1. CAREER CONNECTED LEARNING FRAMEWORK (2016)

Graphic depicting awareness, exploration, preparation, and training experiences that make up Career Connected Learning. Link: <https://tinyurl.com/CCLframework>



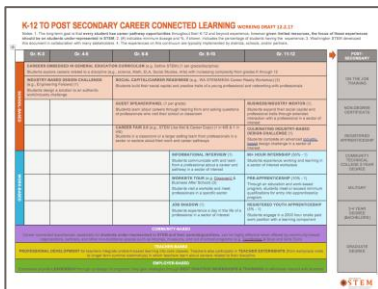
## 2. CAREER CONNECTED LEARNING CONTINUUM (2016)

Definitions and intended student outcomes for 14 unique experiences within the Career Connected Learning Framework. Link: <https://tinyurl.com/CCLcontinuum>



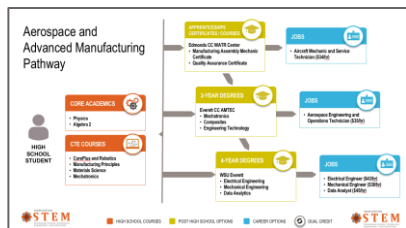
## 3. CAREER CONNECTED LEARNING PATHWAYS GRAPHIC (2017)

A general pathway from a sample of career related experiences in elementary through high school to post-secondary options to great careers in Washington State. Link: <https://tinyurl.com/CCLPathways>



## 4. CAREER CONNECTED LEARNING K-12 TO POST SECONDARY PATHWAYS GRAPHIC (2017)

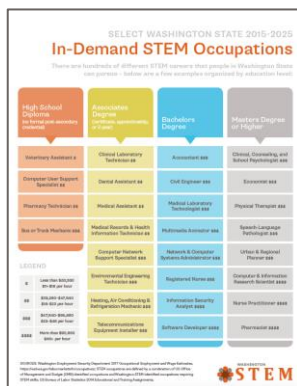
School-based and work-based experiences and dosages at each K-12 grade level leading to general post-secondary options. Link: <https://tinyurl.com/K12CCLPathway>



## 5. INDUSTRY-SPECIFIC HIGH SCHOOL TO POST SECONDARY TO CAREER PATHWAYS (2017)

High school (CTE and general education) courses, certification programs, 2-year degree programs, and 4-year degree programs leading to careers in a specific region and industry such as aerospace in Everett and Healthcare in Seattle.

Link: <https://tinyurl.com/CCLindustry pathways>



## 6. HIGH DEMAND OCCUPATIONS BY EDUCATION LEVEL IN WASHINGTON STATE (2018)

A sample of high demand STEM occupations and salary ranges sorted by education level from high school diploma to graduate degrees.

Link: <https://tinyurl.com/STEM-occupations>



## 7. ASSESSING LABOR MARKET DATA GUIDEBOOK & TOOLS (2017)

The Guidebook's three components – **Washington STEM Jobs Data Tool**, **Best Practices Graphic**, and **Staff Training** – provide users with a better understanding of high-demand career opportunities and particularly STEM careers. Educators well-versed in growing job prospects within local and state labor markets can connect their teaching to real-life skill demands that students need to pursue career interests, as well as their next step along the post-high school education path. This resource also includes one-page **Labor Market Data (LMD) Snapshots** depicting a specific regions' job data.

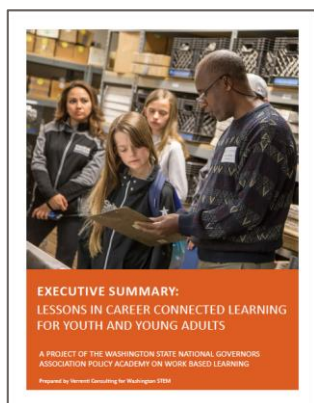
Link to Guidebook: <https://tinyurl.com/LMDGuide>

Link to STEM Jobs Data Tool: <https://tinyurl.com/STEMJobData>

Link to Best Practices Graphic: <https://tinyurl.com/BestPracticeGraphic>

Link to Staff Training: <https://tinyurl.com/LMDStaffTraining>

Link to LMD Snapshots: <https://tinyurl.com/LMDsnapshots>



## 8. LESSONS IN CAREER CONNECTED LEARNING FOR YOUTH AND YOUNG ADULTS (LEARNING LAB REPORT) (2017)

Lessons learned through a study commissioned by the Governor's Office of 21 career related programs across Washington state.

Link to Executive Summary: <https://tinyurl.com/LearningLabExSum>

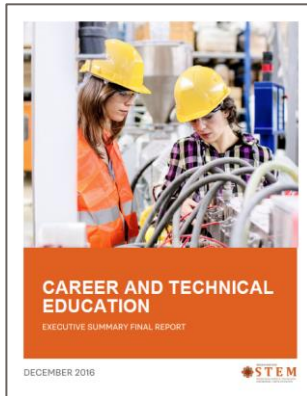
Link to Full Report: <https://tinyurl.com/LearningLabReport>

CRITERIA FOR HIGH-QUALITY CAREER CONNECTED LEARNING				
CRITERIA	INDICATORS	EVIDENCE FOR IMPLEMENTATION AND QUALITY		
		INDICATOR	INDICATOR	INDICATOR
1. CRITERIA FOR HIGH-QUALITY CAREER CONNECTED LEARNING	1.1. Career and technical education (CTE) programs are designed to meet the needs of students and the workforce.	1.1.1. CTE programs are designed to meet the needs of students and the workforce.	1.1.2. CTE programs are designed to meet the needs of students and the workforce.	1.1.3. CTE programs are designed to meet the needs of students and the workforce.
	1.2. CTE programs are designed to meet the needs of students and the workforce.	1.2.1. CTE programs are designed to meet the needs of students and the workforce.	1.2.2. CTE programs are designed to meet the needs of students and the workforce.	1.2.3. CTE programs are designed to meet the needs of students and the workforce.
	1.3. CTE programs are designed to meet the needs of students and the workforce.	1.3.1. CTE programs are designed to meet the needs of students and the workforce.	1.3.2. CTE programs are designed to meet the needs of students and the workforce.	1.3.3. CTE programs are designed to meet the needs of students and the workforce.
	1.4. CTE programs are designed to meet the needs of students and the workforce.	1.4.1. CTE programs are designed to meet the needs of students and the workforce.	1.4.2. CTE programs are designed to meet the needs of students and the workforce.	1.4.3. CTE programs are designed to meet the needs of students and the workforce.
	1.5. CTE programs are designed to meet the needs of students and the workforce.	1.5.1. CTE programs are designed to meet the needs of students and the workforce.	1.5.2. CTE programs are designed to meet the needs of students and the workforce.	1.5.3. CTE programs are designed to meet the needs of students and the workforce.
2. CRITERIA FOR HIGH-QUALITY CAREER CONNECTED LEARNING	2.1. CTE programs are designed to meet the needs of students and the workforce.	2.1.1. CTE programs are designed to meet the needs of students and the workforce.	2.1.2. CTE programs are designed to meet the needs of students and the workforce.	2.1.3. CTE programs are designed to meet the needs of students and the workforce.
	2.2. CTE programs are designed to meet the needs of students and the workforce.	2.2.1. CTE programs are designed to meet the needs of students and the workforce.	2.2.2. CTE programs are designed to meet the needs of students and the workforce.	2.2.3. CTE programs are designed to meet the needs of students and the workforce.
	2.3. CTE programs are designed to meet the needs of students and the workforce.	2.3.1. CTE programs are designed to meet the needs of students and the workforce.	2.3.2. CTE programs are designed to meet the needs of students and the workforce.	2.3.3. CTE programs are designed to meet the needs of students and the workforce.
	2.4. CTE programs are designed to meet the needs of students and the workforce.	2.4.1. CTE programs are designed to meet the needs of students and the workforce.	2.4.2. CTE programs are designed to meet the needs of students and the workforce.	2.4.3. CTE programs are designed to meet the needs of students and the workforce.
	2.5. CTE programs are designed to meet the needs of students and the workforce.	2.5.1. CTE programs are designed to meet the needs of students and the workforce.	2.5.2. CTE programs are designed to meet the needs of students and the workforce.	2.5.3. CTE programs are designed to meet the needs of students and the workforce.

## 9. CRITERIA FOR HIGH QUALITY CAREER CONNECTED LEARNING CHECKLIST (2017)

Nine criteria, indicators, and examples of high quality career connected learning, based on research and field tested among emerging and existing programs in Washington state during the Governor-commissioned Learning Lab project.

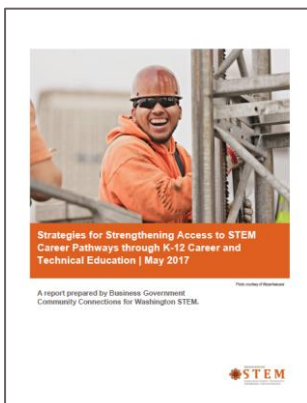
Link: <https://tinyurl.com/CCLcriteria>



## 10. CTE TO CTC WHITE PAPER REPORT EXECUTIVE SUMMARY (2016)

A baseline understanding of the current CTE system and the need to build strong CTE pathways to high-demand jobs requiring STEM skills. The report uses data gathered from a literature review of CTE, and interviews with national and state policy advocates, CTE staff and administrators, community college representatives, and students involved in CTE programs.

Link: <https://tinyurl.com/CTEwhitepaper>



## 11. STRATEGIES FOR STRENGTHENING ACCESS TO STEM CAREER PATHWAYS THROUGH K-12 CTE REPORT (2017)

Examines three areas of the K-12 Career Technical Education (CTE) system: Awareness and Communications; Systems Alignment; and Policy and Funding. Interviews were conducted with CTE Directors, college and workforce partners, and external experts to develop a set of recommendations on ways to strengthen STEM career pathways between K-12 and community and technical colleges.

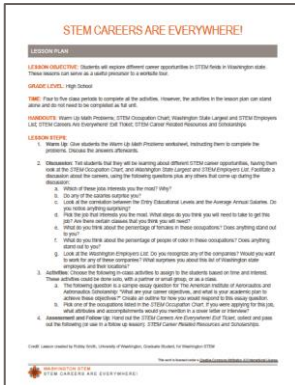
Link: <https://tinyurl.com/CTEReport2>



## 12. CTE MESSAGING AND MARKETING TOOL KIT (2018)

Research-based marketing campaigns and adaptable templates aimed at getting the word out about CTE programs and their associated pathways to great jobs in Washington.

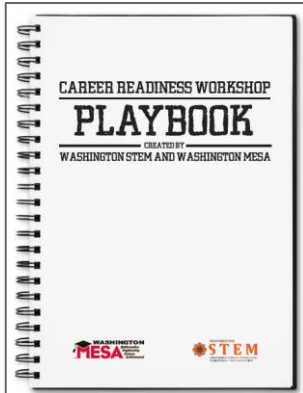
Link: [Coming Soon!](#)



### 13. STEM CAREERS ARE EVERYWHERE! LESSON PLAN (2017)

High School lesson providing students with an exploration of different STEM career opportunities in Washington state and includes step-by-step teacher instructions, a Warm Up Math exercise, STEM Occupation Chart, Washington State Largest and STEM Employers List, Exit Ticket; and STEM Career Related Resources and Scholarships.

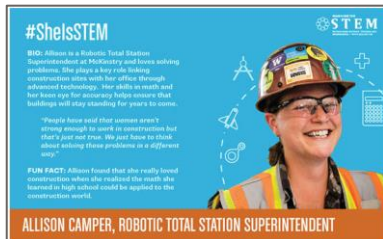
Link: <https://tinyurl.com/STEMCareersLessonPlan>



### 14. WASHINGTON STEM & WASHINGTON MESA CAREER READINESS PLAYBOOK (2016)

Step-by-step guide for how to hold a successful Career Readiness Workshop targeting middle and high school students, as well as post-secondary students seeking STEM internships and employment. Included are example materials from an event hosted by Washington State MESA as well as templates and presentations for creating your own successful Career Readiness Workshop.

Link: <https://tinyurl.com/CRPlaybook>



### 15. SHE IS STEM PROFILES (2017)

A small sample of amazing women doing amazing things in the world of STEM.

Link: <https://tinyurl.com/SheIsSTEM>



### 16. ENGINEERING FELLOWS PLAYBOOK (2017)

A guide for implementing the Engineering Fellows Program—beyond the design challenges and teaching plans that are developed by teams of teachers, college engineering students, and professional engineers.

Link: <https://tinyurl.com/EFPlaybook>

The following curated resources were developed by other organizations (i.e. not developed by Washington STEM) and represent a few exemplary products.



### 1. **EMPLOYER'S WORKSITE TOUR TOOLKIT (2017)**

Developed by the Community Center for Education Results (CCER), this is a step-by-step manual for employers to plan a highly effective worksite tour filled with examples of best practice.

Link: <https://tinyurl.com/DiscoverUToolkit>