

## Advanced Manufacturing Career Cluster Resource List

Resource	Author / Publisher	Location	Notes	POS
<b>Advanced Manufacturing Portal</b>	US Government, NASA, NSF	<a href="https://www.manufacturing.gov/">https://www.manufacturing.gov/</a>	This is a source for news and information on advanced manufacturing programs and related activities underway in federal agencies and with science and technology missions. The news briefs can also be used to help students conduct research.	All Advanced Manufacturing POS
<b>American Welding Society</b>	AWS	<a href="http://www.aws.org/">http://www.aws.org/</a>	A great resource for welding teachers.	Welding POS
<b>CTE Online</b>	Center for the Advancement of Digital Resources in Education	<a href="http://www.cteonline.org/portal/default/default">http://www.cteonline.org/portal/default/default</a>	CTE Online is a single destination for model curriculum, resources, tools and community. Search curriculum by keywords.	All Advanced Manufacturing POS
<b>Free Studio</b>	Free Studio	<a href="http://www.dvdvideosoft.com/">http://www.dvdvideosoft.com/</a>	This software can be used to download YouTube videos from the internet. This is useful for teachers at schools that block YouTube viewing.	All Advanced Manufacturing POS

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<b>How Everyday Things are Made</b>	Alliance for Innovative Manufacturing (AIM) at Stanford University	<a href="http://manufacturing.stanford.edu/hetm.html">http://manufacturing.stanford.edu/hetm.html</a>	This site has over 4 hours of video footage showing how commonly used things are made (manufactured). The site is based on a continuing studies course at Stanford and taught by Dr. Mark Martin.	All Advanced Manufacturing POS
<b>Introduction to Mechatronics and Measurement Systems</b>	Dr. David Alciatore	<a href="http://mechatronics.colostate.edu/">http://mechatronics.colostate.edu/</a>	Resources that can be used to help supplement the textbooks.	Mechatronics POS
<b>Links to Information</b>	San Jose State University - College of Engineering	<a href="http://www.engr.sjsu.edu/bjfurman/courses/ME106/other/mechatronicslinks.htm">http://www.engr.sjsu.edu/bjfurman/courses/ME106/other/mechatronicslinks.htm</a>	Provides outreach programs to enrich students to study STEM in preparation for careers in advanced manufacturing. Programs include: PRIME, National Robotics Challenge, Shop Rate Foundation, The Edge Factor, and the Tradesmen: Making an Art of Work.	All Advanced Manufacturing POS
<b>MAKE Magazine</b>	Maker Media	<a href="http://makezine.com/">http://makezine.com/</a>	Provides a conduit to participate in content development that is relevant to the manufacturing industry. Moreover, it connects manufacturing content experts to share, discuss, and contribute knowledge.	All Advanced Manufacturing POS

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<b>Maker Faire</b>	Maker Media	<a href="http://makerfaire.com/">http://makerfaire.com/</a>	A source of events, training and development, education and careers, knowledge, and publications, all related to manufacturing.	All Advanced Manufacturing POS
<b>Maker Movement Resources</b>	We Are Teachers Blog	<a href="http://www.weareteachers.com/community/blogs/weareteachersblog/blog-wat/2013/03/13/the-teacher-report-joining-the-maker-movement">http://www.weareteachers.com/community/blogs/weareteachersblog/blog-wat/2013/03/13/the-teacher-report-joining-the-maker-movement</a>	Provides sources such as curriculum, online classes, assessments, certifications, digital books and videos.	All Advanced Manufacturing POS

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<b>Manufacturing &amp; Engineering Technologies Education Clearinghouse (METEC)</b>	National Center for Manufacturing Education	<a href="https://www.opened.com/ot-her/manufacturing-engineering-technologies-education-clearinghouse/9012714">https://www.opened.com/ot-her/manufacturing-engineering-technologies-education-clearinghouse/9012714</a>	The Manufacturing & Engineering Technologies Education Clearinghouse (METEC), run by the National Center for Manufacturing Education (NCME), is a searchable database of materials submitted by educators from around the world. Topics covered include classroom content and pedagogy. New materials are added continually, so be sure to check back often. Access to most materials requires a quick and free registration with METEC.	All Advanced Manufacturing POS
<b>Manufacturing Institute</b>	Manufacturing Institute and National Association of Manufacturers	<a href="http://www.themanufacturinginstitute.org/">http://www.themanufacturinginstitute.org/</a>	Information regarding the attraction, qualification and the development of world-class manufacturing talent	All Advanced Manufacturing POS
<b>Manufacturing Day</b>	Fabricators and Manufacturers Association	<a href="http://www.mfgday.com/resources">http://www.mfgday.com/resources</a>	Whether you are an event host, an event organizer, an attendee, media personnel or an educator we have compiled resources to help you.	All Advanced Manufacturing POS
<b>Manufacturing Technology Lesson Plans</b>	Utah Education Network	<a href="http://www.uen.org/Lessonplan/preview.cgi?LPid=16536">http://www.uen.org/Lessonplan/preview.cgi?LPid=16536</a>	A database of quality lesson plan ideas.	All Advanced Manufacturing POS

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<b>Mechatronic Tutorial Information</b>	San Jose State University, College of Engineering	<a href="http://www.engr.sjsu.edu/bjfurman/courses/ME106/mechatronicstutorials.htm">http://www.engr.sjsu.edu/bjfurman/courses/ME106/mechatronicstutorials.htm</a>	This site will take you to various tutorials and references on key subjects in mechatronics	Mechatronics POS
<b>Manufacturing Skill Standards Council</b>	Manufacturing Skill Standards Council	<a href="http://www.msscusa.org/certification/production-certification-cpt/">http://www.msscusa.org/certification/production-certification-cpt/</a>	Information regarding the Certified Production Technician (CPT) certification.	Machining Technology POS
<b>Mechatronics Resources</b>	Colorado State University	<a href="http://www.mechatronics.colostate.edu/resources.html">http://www.mechatronics.colostate.edu/resources.html</a>	A listing of quality mechatronics resources.	Mechatronics POS
<b>mycareerme</b>	Society of Manufacturing Engineers Education Foundation, National Science Foundation, National Center for Manufacturing Education	<a href="http://www.CareerME.org">www.CareerME.org</a>	It's never too late to begin your career development in the high-tech manufacturing world. Technically skilled employees are needed now more than ever, contrary to what you might read or be told! Learn more about different career pathways to help you prepare for a wide variety of advanced manufacturing occupations.	All Advanced Manufacturing POS
<b>National Association of Manufacturers</b>	National Association of Manufacturers (NAM)	<a href="http://www.nam.org/">http://www.nam.org/</a>	The National Association of Manufacturers (NAM) is the largest manufacturing association in the United States, representing small and large manufacturers in every industrial sector and in all 50 states.	All Advanced Manufacturing POS

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<b>National Center for Manufacturing Education</b>	Sinclair Community College, National Science Foundation, Advanced Technological Education (ATE) Centers	<a href="http://www.ncmeresource.org/ncme_sites.php">http://www.ncmeresource.org/ncme_sites.php</a>	A great source of materials, support services, and professional development opportunities for educators and industry professionals.	All Advanced Manufacturing POS
<b>National Science Digital Library</b>	UCAR Community Programs and National Science Foundation	<a href="http://nsdl.org/">http://nsdl.org/</a>	A search engine for an array of resources including advanced manufacturing.	All Advanced Manufacturing POS
<b>National Institute of Metalworking Skills (NIMS)</b>	National Institute of Metalworking Skills (NIMS)	<a href="https://www.nims-skills.org/web/nims/6">https://www.nims-skills.org/web/nims/6</a>	Information on the NIMS certification process.	Machining Technology POS
<b>Research and Education in Mechatronics</b>	Network on Research and Education in Mechatronics	<a href="http://mechatronics-net.de/">http://mechatronics-net.de/</a>	Up to date information regarding mechatronics policy and research.	Mechatronics POS
<b>Siemens Mechatronics Systems Certification</b>	Siemens	<a href="http://www.siemens-certifications.com/content/0/6/7/5903/">http://www.siemens-certifications.com/content/0/6/7/5903/</a>	Information on the Siemens certifications.	Mechatronics POS