

## MANUFACTURING AND STEM JOB INFORMATION

- Source: [partnership4learning.org/credentialessential](http://partnership4learning.org/credentialessential).
- He encourages students to tour a manufacturing site. "Getting an inside look at how products are made can help people visualize what it is they want to do."
- Nearly 3.5 million manufacturing jobs will be needed in the U.S. by 2025, and 2 million are expected to go unfilled due to a lack of skilled workers. What is needed to prepare for these jobs? (Provided by Partnership for Learning)
- Most of the 740,000 job openings estimated by 2021 will be filled by workers with postsecondary credentials, such as a bachelor's degree, an associate's degree, an industry certificate or an apprenticeship.
- Total output from manufacturing was \$58.43 billion in 2016, with 286,300 manufacturing employees. According to the [Center for Manufacturing Research](#), the average annual compensation for manufacturing employees was \$87,818 in 2016.
- Two out of 5 Americans believe the STEM worker shortage is at crisis levels, according to results from the fourth annual [STEM survey by Emerson](#), released in August. 2018
- Much research points to the worrisome prediction that the U.S. will not have produced enough highly-skilled workers to fill STEM jobs in the next few years. Those worries are compounded by the fact that many STEM jobs in the future don't exist today—the Department of Labor estimates 65 percent of today's students will find themselves in such jobs. Students will need an array of STEM skills to tackle those positions.