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The Manufacturing Labor Force Is Upskilling and Downsizing, Says New Georgetown University Report

7 million manufacturing jobs were shed between 1979 and 2017, and workers with postsecondary education now comprise 56% of the manufacturing workforce

(Washington, DC, June 13, 2019) The glory days of American manufacturing in the 1970s—when workers with a high school diploma or less held 79% of the industry’s jobs—will not return. By 2016, these workers made up just 43% of the manufacturing workforce, according to new research from the Georgetown University Center on Education and the Workforce (CEW) in partnership with JPMorgan Chase & Co. *Upskilling and Downsizing in American Manufacturing* finds that workers with postsecondary education now outnumber workers with a high school diploma or less in manufacturing.

The manufacturing industry plays a less central role in the American economy than it did in the past, but it still is the top provider of good jobs for workers without a bachelor’s degree in 35 states. However, the CEW researchers project that manufacturing is likely to lose 2% of employment (253,000 net jobs) by 2027.

As the overall number of jobs in manufacturing has declined, the structure of good jobs in the industry has shifted in favor of workers with more education. Workers with bachelor’s degrees greatly increased their share of non-production jobs from 29% in 1991 to 44% in 2016. High school-educated workers still hold the majority of production jobs, though they have declined from 79% to 64% of production workers.

“The downsizing accelerated upon China’s entry into the World Trade Organization,” said Anthony P. Carnevale, lead author of the report and CEW director.

The odds of finding a good job in manufacturing with a high school diploma or less have been cut in half since 1991, as 2 million good jobs for high school-educated workers have been lost. Nevertheless, manufacturing is the largest provider of jobs that pay for workers with less than a bachelor’s degree, at 4.8 million (16%) in 2016. We define good jobs as those that pay at least \$35,000 per year, at least \$45,000 for workers age 45 and older, and \$65,000 in median earnings in 2016.

The CEW researchers found that output in manufacturing has grown by more than 60% since 1991, while employment in the industry shrank by almost 30%. In 1979, at the peak of manufacturing employment, each worker added \$293,000 to manufacturing output. By 2017, that contribution had increased to \$485,000. The manufacturing industry has continued to prosper while reducing its total employment.

“People now need higher skill levels and should look outside the assembly line if they want to compete with robots for manufacturing jobs,” said Jeff Strohl, co-author of the report and CEW director of research.

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