

THE AUTOMATION & THE SPECIALIZATION OF MANUFACTURING JOBS IN AMERICA

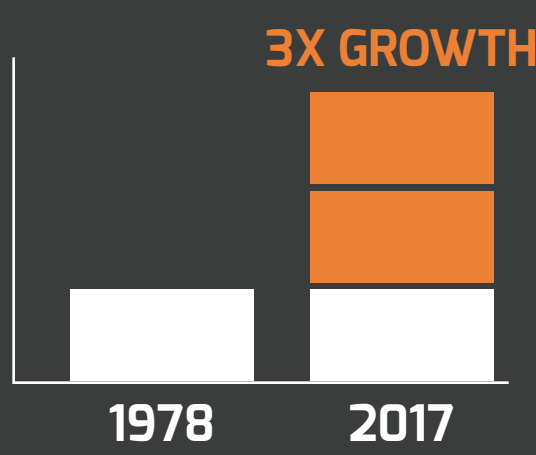
Is the U.S. manufacturing industry disappearing?
 Contrary to popular rhetoric, manufacturing is still alive and well.



The industry makes up over 12% of the country's gross domestic product (the same as in 1960).

AVERAGE FACTORY WORKER PRODUCES

Manufacturing output continues to grow as the average factory worker produces over 3 times what they produced in 1978.



Over the past decade, manufacturing companies have invested in technology to make their plants more efficient and specialized. As a result, thousands of jobs were automated and others moved overseas.

THE U.S. HAS LOST 5 MILLION MANUFACTURING JOBS SINCE THE START OF THE NEW MILLENNIUM.

However, new jobs have been created for people who are skilled at working with computers and advanced machinery. This "advanced manufacturing" sector is expanding rapidly.

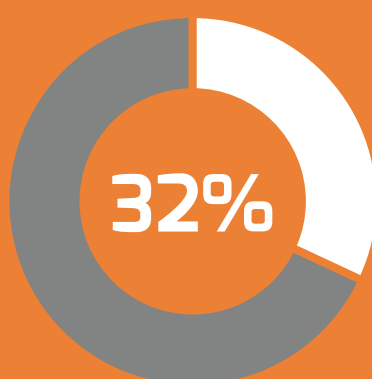
ACCORDING TO THE WHITE HOUSE, THE U.S. WILL NEED TO FILL

3.5 MILLION

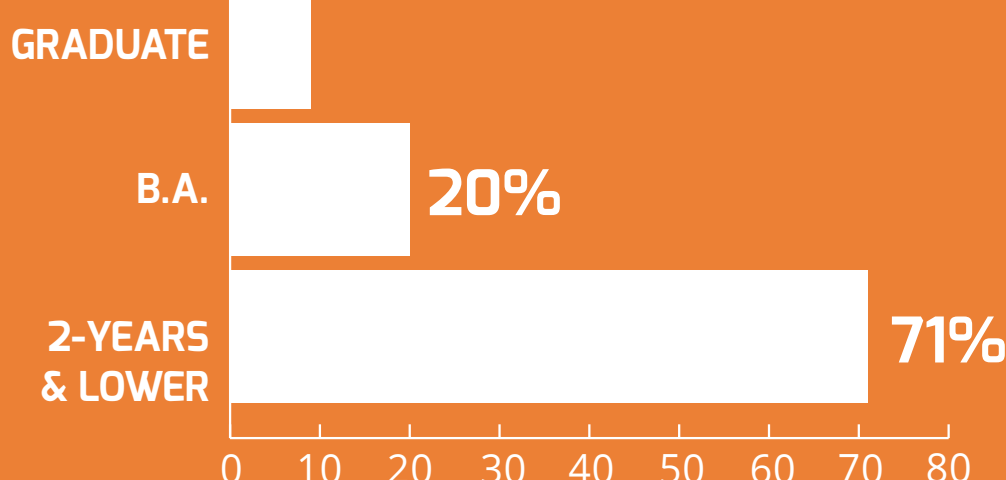
ADVANCED MANUFACTURING JOBS OVER THE NEXT 10 YEARS.



These positions call for higher education. Since 2000, jobs in manufacturing for people with graduate degrees have increased by



MANUFACTURING WORKFORCE EDUCATION LEVEL



Today, almost 9% of the manufacturing workforce holds a graduate or professional degree while nearly 20% have a B.A.

50 YEARS AGO

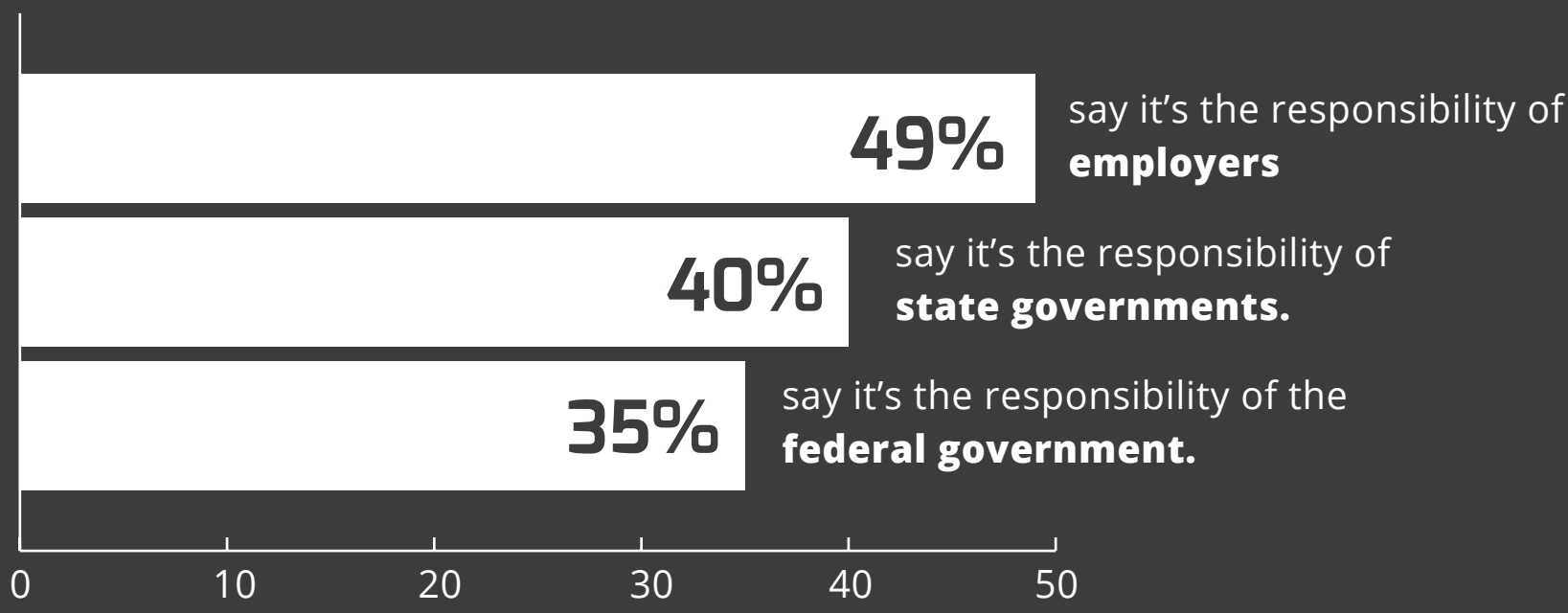
very few manufacturing workers attended college at all.

These highly skilled workers are better compensated for their work as well. According to the Bureau of Labor Statistics, the average manufacturing worker earns \$26 an hour.

\$26 PER HOUR

The catch is that traditional manufacturing workers don't have advanced degrees. Some experts believe that retraining laid off manufacturing workers for more advanced positions could help them reenter the workforce. According to a PEW Research Center survey:

WHO SHOULD BE RESPONSIBLE FOR MAKING SURE EMPLOYEES HAVE THE RIGHT SKILLS TO BE SUCCESSFUL IN THEIR FIELD?



Sources:

theatlantic.com/business/archive/2017/01/america-is-still-making-things/512282

whitehouse.gov/sites/whitehouse.gov/files/images/Blog/NSTC%20SAM%20technology%20areas%20snapshot.pdf

themanufacturinginstitute.org/Research/Facts-About-Manufacturing/Workforce-and-Compensation/Workforce-by-Education/Workforce-by-Education.aspx

pewsocialtrends.org/2016/10/06/the-state-of-american-jobs

Brought to you by:

CUTTING TOOL ENGINEERING

www.ctemag.com