



Skills Gap

## How the Manufacturing Rebound Will Change Employee Recruitment and Retention

Matt Morgan | Aug 04, 2020

Demand for manufacturing is beginning to rebound from historic lows. Will you be ready? A drastically changed employment picture may challenge companies to rethink their workforces in the near and long term. Here are some issues to consider.

The U.S. economy nearly ground to a halt when the COVID-19 pandemic arrived. Manufacturing companies were among the hardest hit, mainly because a weakened supply chain dried up demand for products, and many workers in the sector do jobs that can't be done remotely.

Companies had little choice but to cut back production and lay off workers.

Now, there are early signs of a rebound. Gardner Intelligence, a consulting firm that measures data trends in the manufacturing industry, said in its *June report*, "a shrinking proportion of manufacturers experienced worsening conditions and a growing proportion experienced unchanging or improving conditions relative to May."

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Jasmeet Singh  
Infosys

More promising news: According to the U.S. Bureau of Labor Statistics, *employment in manufacturing grew by 356,000 in June*, mostly thanks to motor vehicles and parts.

## Jobs Needed in Manufacturing's Digital Future

The economic crisis could be revolutionary in the way that it propels manufacturing companies toward **Industry 4.0**, the term for the digital transformation of the workplace that has emerged in recent years.

Now more than ever, companies are compelled to automate production to keep costs down. The digitalization of work is not taking away manufacturing jobs. Rather, it's ***changing the very nature of manufacturing jobs***.

An **article by Deloitte** puts it well: "As digital transformation and the Fourth Industrial Revolution [Industry 4.0] continue to redefine manufacturing jobs of the future, leaders and workers alike need to embrace a work environment that is expected to blend advanced technology and digital skills with uniquely human skills, to yield the highest level of productivity."

Deloitte explored ***what jobs could look like*** in the manufacturing facility of the future.

**Digital twin engineer:** This person oversees a digital twin environment, including both the physical product and its virtual representation using Internet of Things connectivity, to manage the product from start to finish.

**Predictive supply network analyst:** This person uses digital tools such as machine learning to evaluate supply and demand and make adjustments to the system to maximize performance.

**Robot teaming coordinator:** This person trains humans and robots to work together, monitors and reports on robot performance, and identifies opportunities to improve productivity.

**Smart QA manager:** This person manages the facility's fully automated quality assurance system that includes artificial intelligence and virtual reality, and flags maintenance issues.

**Smart factory manager:** This person manages production operations and quality, and analyzes artificial intelligence to optimize inventory levels and ***overall equipment effectiveness***.

As various segments of the industry come back online, will your workforce be ready to meet a rise in product demand?

## Make Best Use of Existing Resources and Workers

In the near term, manufacturing companies must look to maximize the resources and staff they have on hand.

Automation is one way to accomplish this. "Manufacturers that have piloted [automation] solutions should ramp them up carefully, while others should start exploring them," ***consulting firm PwC advises***.

The key words here are “carefully” and “exploring.” Given the delicate economic climate, now may not be the right time for companies to make sizable investments in new technologies.

But for those that are well positioned and willing to try, focusing on a few areas of automation can make the most of a reduced workforce, PwC advises. Those areas are:

- Autonomous materials movement, such as forklifts and cranes.
- Automation of repetitive tasks in assembly, such as industrial robotics and collaborative robots.
- Predictive maintenance using the *Internet of Things* and *artificial intelligence*.

***Read more: Automation Nation: Reduce Setups and Repetitive Stress Work in Manufacturing***

Automation will also bring about a need for certain soft skills in the workplace.

Jasmeet Singh, executive vice president and global head of manufacturing at Infosys, **wrote in *Industry Week***: “Beyond purely technical skills, skills increasingly needed are complex problem-solving, critical thinking and creativity. An example of upskilling would be training workers who have an aptitude for it in data and analytics skills. This will enable them to contribute to increasingly mission-critical tasks such as demand forecasting.”

Singh shared an example of GE Appliances opening a new plant featuring ***Industry 4.0 technologies*** such as data visualization, 3D scanning and rapid prototyping.

“To prepare workers for this modern manufacturing facility,” he wrote, “the GE Appliances team conducted hydraulics training through a local supplier and implemented on-site training in order to reskill its employees for the new factory floor.”

***Read more: Stay up to date on metalworking career trends from Better MRO***

## **Begin to Rebuild Your Workforce**

When more workers are needed to meet increasing production demand, companies may find it surprisingly difficult to rehire.

While a worker shortage seems counterintuitive given the country’s record unemployment numbers, Ethan Karp, CEO of Magnet, a consulting group for the manufacturing industry, points to a talent problem that precedes the COVID-19 pandemic.

There is an opportunity to lay the foundation—or build on the one you’ve already started—to create a strong recruiting and hiring program for the future. He offered the following advice in a ***webinar hosted by Industry Week***.

**1. Be innovative with recruiting.** Instead of going to the same places and using the same tactics to find the right talent, go to where the people are—namely, social media—and make your company appealing in that space. Companies have found success by using Spotify, Snapchat and text messages in their recruiting, Karp said. Don’t be afraid to try different avenues and find what works for you, he said.

**2. Tell your company’s unique story.** Millennials make up the largest pool of potential workers, and they generally aren’t choosing to work in manufacturing. ***Attract millennials to manufacturing*** by sharing stories that illustrate how manufacturing—how your company—is a career of opportunity, Karp said. “They want to know that your product is helping people,” he said. “They want to know that there’s a significant opportunity for advancement and lucrative pay. We can show them that.”

***Read more: They’re Already Doing It: The Millennial Machinists Helping the Skills Shortage***

**3. Cast a wider recruiting net.** In manufacturing, 71 percent of workers are male, and 80 percent are white, according to the U.S. Bureau of Labor Statistics. Think about the makeup of your community and the demographics that are underrepresented in your workplace. In doing so, you'll find a much greater pool of skilled workers to recruit from.

**4. Treat your workers well.** "When you build a great place to work, your employees talk about it, and that helps draw more great talent to you," Karp said. If you don't know what your employees think about the company, ask them.

**5. Invest in training.** "New technologies are constantly coming onto the floor," Karp said. "Since we can't always find the skilled talent we need to run that equipment, we need to figure out how to upskill that talent inside our own plants." Consider traditional means, such as online training and college classes, and newer methods, such as augmented reality and virtual reality.

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**6. Create an apprenticeship program.** Through paid, on-the-job training and classroom education, *apprenticeships attract and keep people in manufacturing.* "The strategy helps businesses thrive by building a highly skilled, highly productive workforce, and it helps job seekers access and maintain stable careers with good wages," the U.S. Department of Labor says, noting that more than 91 percent of apprentices are still employed by the company nine months later. To start, Karp said, companies can connect with local colleges or high schools that might have a program, or they can reinstate one that hasn't been used in a while.

*Read more: 4 Proven Methods for Filling Local Manufacturing Jobs*

*What employment challenges have you faced as production ramps up? How have you overcome them?*

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