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## INNOVATION AND INTELLECTUAL PROPERTY ARE KEY TO **BRINGING BACK U.S. MANUFACTURING JOBS**









## innovation is driving a renaissance in manufacturing.

"American made" is back in vogue. After years of prevalent offshoring, more and more U.S. manufacturing companies are bringing their operations back stateside in a practice known as reshoring. As job creation in the sector surges, companies are seeking ways to make the most of

advantage by generating valuable intellectual property through deep innovation. To make the most of

onshore talent in order to maintain their global competitiveness. Many are gaining proprietary

that innovation, some companies are leveraging the power of crowdsourcing, harnessing the

This blog post is a supplement to the Brightidea podcast on how crowdsourced

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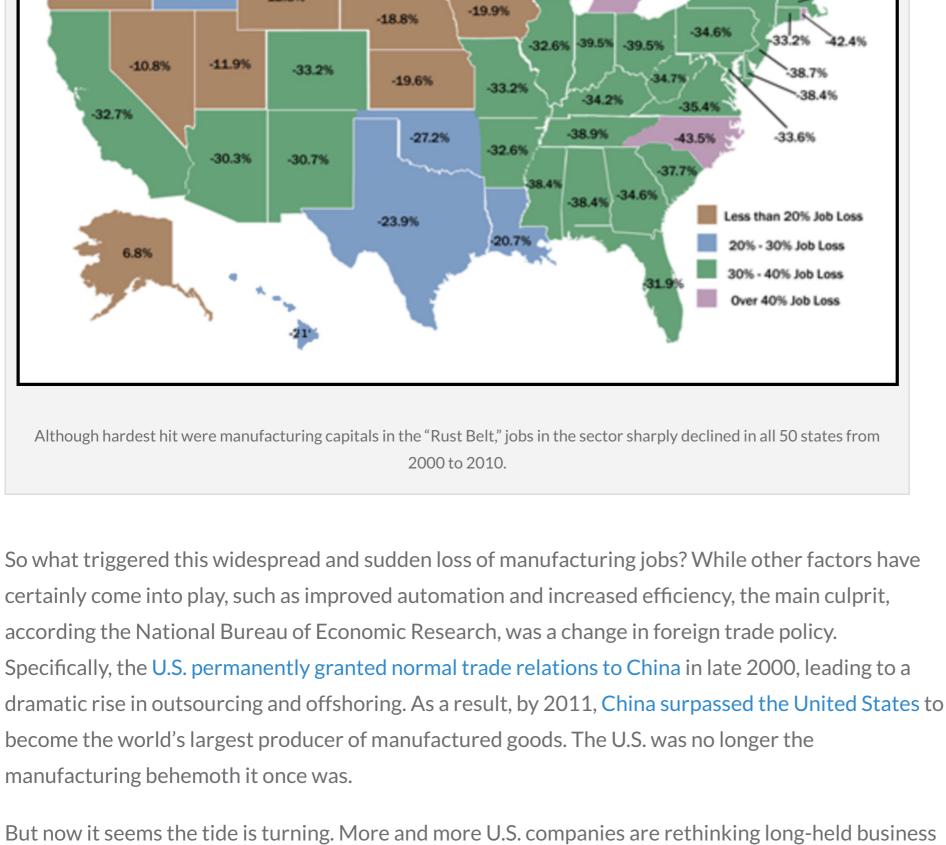
**AUTHOR** 

untapped potential of highly skilled engineering teams. A Boomerang in Job Loss and Growth Before its current resurgence, domestic manufacturing had been through some tough times. During the first decade of the new millennium, the sector suffered a staggering loss of 5.7 million jobs. It was a decline that, as a share of total manufacturing jobs (33 percent), exceeded the rate of loss during the Great Depression—making it the "worst performance in American history." Although hardest hit were

the manufacturing capitals in America's "Rust Belt," jobs in the sector declined in all 50 states, in some

cases by nearly half.

Percentage Loss in Manufacturing Jobs, 2000-2010 -1.6% 22.8% 24.9% -26.2% -27.3% -13.2% -10.8% -24.6% 46.7% -38.5% -12.8% -19.9% -18.8% -34.6%



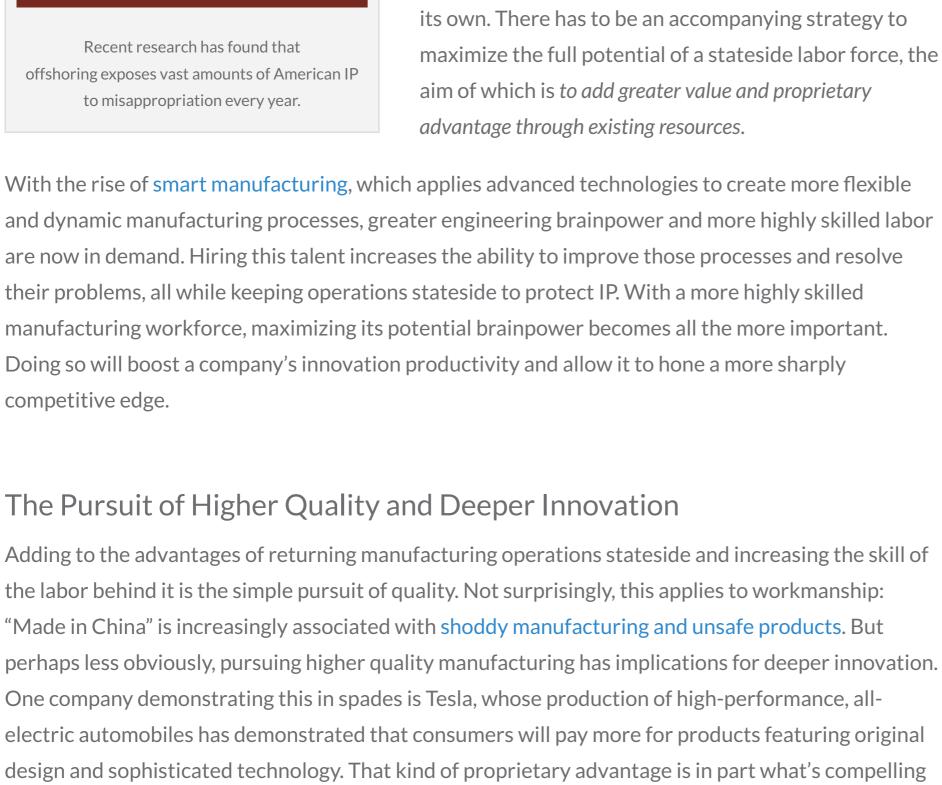
decades during which American manufacturing experienced a net gain in jobs, a growth trends that continues today. Controlling IP and Maximizing the Talent Behind It A number of factors have triggered the move towards reshoring. Among them are rising costs of Chinese labor, problems in Chinese manufacturing quality, and the positive corporate image of producing in America. But one in particular is noteworthy: the drive to sharpen the competitive edge

of U.S. manufacturing by limiting the offshore exposure of its intellectual property and increasing the

strategies of contracting their manufacturing operations overseas, and gradually returning

them stateside. While catalyzing this shift is the current administration's position on creating more

American jobs, the strategy had already been proliferating. In fact, 2014 was the first year in two



All of this strongly suggests

that American manufacturing is

stateside talent to generate it.

IP COMMISSION

REPORT

THE REPORT OF

AMERICAN INTELLECTUAL PROPERTY

aim of which is to add greater value and proprietary advantage through existing resources. With the rise of smart manufacturing, which applies advanced technologies to create more flexible and dynamic manufacturing processes, greater engineering brainpower and more highly skilled labor are now in demand. Hiring this talent increases the ability to improve those processes and resolve their problems, all while keeping operations stateside to protect IP. With a more highly skilled

Recently, the Commission on the Theft of American

Intellectual Property found that offshoring results in the

exposure and loss of IP worth \$300 billion per year, with

China responsible for as much as 80 percent of it. While

some of that loss occurs through cyber-espionage, the

majority of it is through traditional methods, including

on-site stealing and bribery. A huge contributing factor

has been the overseas distance in manufacturing supply

chains, which makes it very difficult for major

corporations to stop intellectual property leaks.

Bringing manufacturing operations back stateside in

its own. There has to be an accompanying strategy to

order to curtail the loss of IP, however, is not enough on

maximize the full potential of a stateside labor force, the

manufacturing workforce, maximizing its potential brainpower becomes all the more important. Doing so will boost a company's innovation productivity and allow it to hone a more sharply

## "Novel approaches to becoming less of a race to the research, development, bottom-about whom can do it the cheapest—and more of a race to

KitchenAid, and even Apple (through its contractor, Flextronics).

increasingly more U.S. companies to reshore their operations, including Boeing, Caterpillar,

& production culminate the top, using novel approaches to research, development, and in superior products production that culminate in superior products. In other words, for which people are the sector may start trending away willing to pay more." from cost-based manufacturing (bent on increasing profit margins) and towards value-based manufacturing, which is focused on bringing to market innovative, quality-driven products for which consumers are willing to pay more.

Crowdsourcing Innovative Solutions to Manufacturing Problems

Winning that race to the top hinges on elevating the depth and breadth of innovation in manufacturing. The key is for U.S. companies to harness the untapped potential of their highly skilled engineering teams. One effective way to accomplish this is by leveraging the power of crowdsourcing to solve technical problems that frequently arise in manufacturing. The most efficient route to that end is through specialized software.

Brightidea's new Solve app uses the power of crowdsourcing to tap into the knowledge, skill, and creativity of a manufacturing workforce to find novel solutions to problems in research, design, development, and production. By helping to maximize the full potential of existing resources, the app enables stateside engineering teams to solve problems closer to home while retaining control over new intellectual property that might develop in the process. Manufacturers that accomplish these things can boost the productivity of their manufacturing operations, protect the underlying intellectual property, and ultimately gain a clear competitive advantage in the global marketplace.

in detail how forward-thinking U.S. manufacturing companies are using it find innovative solutions to their most pressing technical problems. SOUNDCLOUD Brightidea Inc. How Crowdsourced Innovation is Driving a Renaissa... **Share** 

To find out more about crowdsourced problem solving, listen to the podcast below. In it, Brightidea

CEO Matt Greeley, Product VP Genevieve Wang, and Senior Product Manager Alison Heisner discuss

▶ 207 Privacy policy Solve is one of several apps in Brightidea's innovation software.



Innovation





**Innovation Strategies and Trends** 

