

Global Leadership in Advanced Manufacturing Act

Senators Coons, Gardner, Gillibrand, Tillis, Hassan, Peters, and Moran

Background

- **Manufacturing USA improves U.S. competitiveness in advanced manufacturing.** The Manufacturing USA program is a national network of 14 public-private partnership institutes with 1,300 member companies and institutions focused on stimulating U.S. leadership in advanced manufacturing. The institutes facilitate the transition of innovative technologies from laboratory, to market, to the production of goods manufactured predominantly within the U.S.
- **Manufacturing USA has generated \$2B in matching funding.** A Deloitte evaluation confirms that Manufacturing USA attracts significant and meaningful participation from industry, and has led to substantial joint investments in collaborative approaches to R&D and commercialization of cutting-edge advanced manufacturing technologies.
- **China is replicating Manufacturing USA.** The China State Council's Made in China 2025 plan mimics the Manufacturing USA program objectives and is significantly outpacing U.S. investment. The Chinese plan will establish 40 manufacturing innovation centers by 2025 to compete with the U.S. Institutes and take market share away from U.S. based manufacturers.¹
- **Investing in manufacturing skills delivers a high return.** Over the next decade, nearly 3.5 million manufacturing jobs will become available. Manufacturing USA workforce development and training can help equip qualified applicants for skilled and highly-skilled production positions.

The Global Leadership in Advanced Manufacturing Act

- **Eliminates the funding limit for high performing institutes.** The bill eliminates the 5-7 year funding limit and replaces it with a five-year, metrics-based review with minimum standards of performance focused on advancement of technology and manufacturing readiness.
- **Promotes new advanced manufacturing institutes in innovative sectors.** The addition of institutes to the national network will increase U.S. global competitiveness in sectors such as microelectronics, food manufacturing, superconductors, advanced battery technologies, robotics, advanced sensors, and supply chain water optimization.
- **Increases interagency collaboration.** The bill empowers the Department of Commerce to bring the Institutes together with federal agencies whose missions contribute to or are affected by advanced manufacturing.
- **Advances national certifications and training for the advanced manufacturing workforce.** The bill advises Commerce to facilitate the development of standards-based, nationally portable, industry-recognized certifications in collaboration with industry, career and technical education schools, local community colleges, and labor organizations. Additional support and financial assistance are encouraged for small manufacturer cybersecurity training, technology transfer, and workforce development.

¹ Congressional Research Service. (2018, Aug). The Made in China 2025 Initiative: Economic Implications for the United States
<https://fas.org/sgp/crs/row/IF10964.pdf>