

Travel Assistance Available for Qualified Participants

Limited funding is available through a grant from the U.S. Department of Commerce, International Trade Administration Market Development Cooperator Program (MDCP). For more information or to join the TAG, visit NEMA's Advanced Manufacturing Council website at nema.org/advanced-manufacturing-council or contact David.Richmond@nema.org.

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Advanced Manufacturing Standards Roadmap

NEMA is developing a consensus-based standards roadmap based on industry's vested interest in the business-case need for standards development and adoption. A roadmap requires input from a variety of relevant stakeholders including manufacturers, industry associations, and standards-related government agencies. The standards roadmap will begin with the end in mind to ensure that advanced manufacturing systems meet user needs.

Topics that have been identified as needing additional standardization include interoperability, communication protocols, blockchain, augmented reality, user guides, cybersecurity, and data.

For more information, or to get involved, contact David.Richmond@nema.org.

NEMA Advanced Manufacturing Council

The association's Advanced Manufacturing Council brings together people in business and strategy-focused roles with those in technical roles. The Council serves as a forum to understand and identify industry's priorities in standards development and other technical barriers to U.S. and international adoption of advanced manufacturing systems. By identifying key priorities, the Council works to ensure that resources are being invested in ways that make the most impact.

Membership in the Council is open, and interested parties should contact Fern Abrams, Industry Director for Industrial Systems (fern.abrams@nema.org) or visit NEMA's Advanced Manufacturing Council website at nema.org/advanced-manufacturing-council.

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What Is Smart Manufacturing?



INTERNATIONAL
TRADE
ADMINISTRATION



National Electrical Manufacturers Association

Data and information are critical for competitive manufacturers in an interconnected world. From increasing efficiency and reducing carbon footprints to gaining supply chain insights amid global disruptions, manufacturing has a new mantra—knowledge is power. Smart, or Advanced Manufacturing, is manufacturing that integrates innovative technologies to respond, in real time, to meet changing demands and conditions. In the 21st century, manufacturers need to get smarter to stay competitive.

Shaping the Future of Smart Manufacturing through U.S. Leadership

Smart manufacturing technology can help companies with cutting-edge issues, including ensuring the interoperability and cybersecurity of existing and new technologies while advancing the digital transformation to improve competitiveness, profitability, and sustainability. Companies that don't successfully implement Smart Manufacturing technologies could face security risks, an inability to innovate, and getting locked out of contracts with requirements based on adopted standards.

Get involved and become part of a community shaping the next generation of manufacturing!

IEC Systems Committee for Smart Manufacturing

U.S. companies and other stakeholders interested in Smart Manufacturing can influence the direction of international Smart Manufacturing standards that directly impact their businesses by joining the IEC Systems Committee for Smart Manufacturing (SyC SM) and the U.S. SyC SM Technical Advisory Group (TAG).

While other countries have developed national policies and strategies, including Germany's Industry 4.0 and Made in China 2025, the U.S. has not articulated a strategy for Smart Manufacturing. The U.S. SyC SM TAG is leading efforts to ensure American industries can benefit from adopting Smart Manufacturing technologies.

Smart Manufacturing Fast Facts

Industrial robot installations saw **12.50% CAGR from 2022 to 2026**

Company adoption of Smart Manufacturing leads to **10-20x ROI on operating costs**

The global projected Smart Manufacturing market estimated at **\$727 billion by 2030**

77% of companies believe Smart Manufacturing will increase global competitiveness

Top Smart Manufacturing users: Aerospace, Automotive, Industrial Equipment, Chemicals, Agriculture, Medical Technology

Join the U.S. SyC Smart Manufacturing Committee Today!

The SyC SM committee seeks members from companies that utilize Smart Manufacturing technologies to help shape its strategic vision and tackle real business challenges.

Benefits of Participation:

- Advance your career and benefit your company or organization by developing relationships with experts in Smart Manufacturing worldwide.
- Companies engaged in this vital work will be well positioned to scale in a rapidly growing global market, ensuring their issues are considered in international standards, while getting a first look at trends, developments, and industry best practices.

Committee Meetings

Participation in the SyC SM offers you the opportunity to travel internationally to meet and network with your peers. The SyC SM meets in person once a year in locations across the globe. In 2022, the TAG will hold meetings Nov. 1–4 in San Francisco. A meeting in Tokyo is planned for Fall 2023. Monthly SyC SM TAG calls ensure that you have the most up-to-date information on international Smart Manufacturing issues.