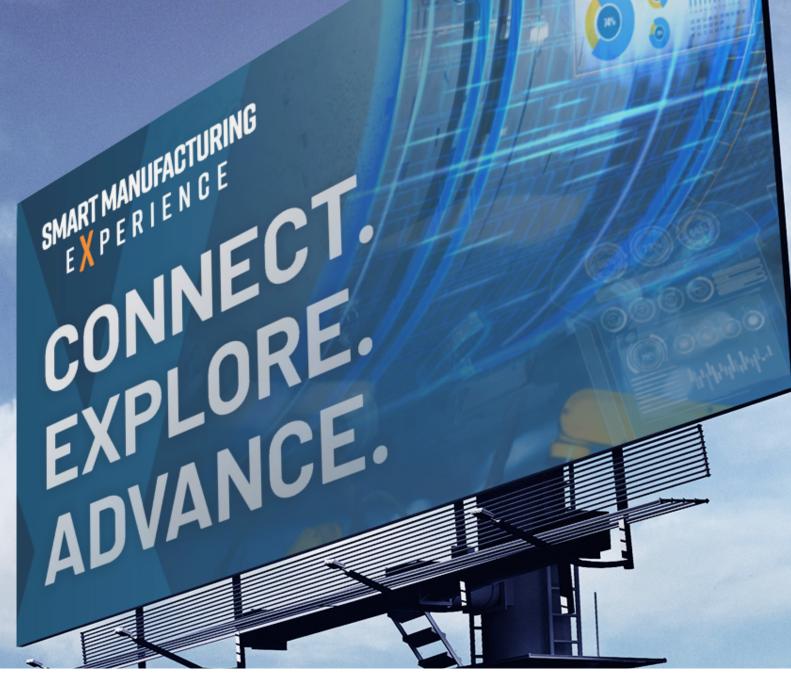
SCESMII

Highlights

Quickly identify event details specific to our members. Keynotes, Panels, Conference Tracks, Smart Manufacturing Knowledge Bars, Exhibitor details, Networking opportunities and more!





About the event

Smart manufacturing technologies have been around for more than 15 years. However, they have been almost exclusively deployed at large manufacturers since they have been too costly and complex for small to medium-sized manufacturers (SMMs) to adopt.

Historically, small & medium manufacturers have been fighting for survival and focusing on day-to-day operations, rather than planning future growth. Often faced with a shortage of skilled workers, lack of interoperability through proprietary systems, rapidly advancing technology, cybersecurity concerns, and scalability constraints, these challenges to SMMs are the focus of the Smart Manufacturing Experience. SME, CESMII, AMT and AMI have partnered for the Smart Manufacturing Experience to meet the needs of these SMMs – putting their challenges at the forefront and providing actionable solutions to address these issues.

The Smart Manufacturing Experience provides multiple connection points and engagement with leading voices; from manufacturers, system-integrators, thought-leaders, government entities and suppliers. SMMs will benefit as they share strategic insights, hear from peers on best practices, and learn technical skills to leverage and deploy data-driven decision-making capabilities in their own operations, revealing new opportunities to create business value and previously untapped ROI. With customized roadmaps available for attendees including - Getting Started with Smart Manufacturing with SMMs, Inside Interoperability, Democratization of AI and Business and Workforce Transformation – there are many opportunities curated specifically to the needs of our SMM community. These topics are woven into the event programming from the strategic, technical, and practical levels at the Smart Manufacturing Experience. Over the 3-day event, you will learn the impact of smart manufacturing technologies on productivity, quality, cost and speed-to-market.

Join us to explore new ways to deploy smart manufacturing technologies at SMMs & benefit from the network of peers and partners who are in similar situations at varying points of their SM journey.

CESMII members are being offered exclusive membership benefits for participating and speaking at The Smart Manufacturing Experience.



Event Brochure

Green buttons in upper left link to additional information





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SMART MANUFACTURING	June 7-9, 2022
E X PERIENCE	David L. Lawrence Convention Cente Pittsburgh, PA
	smartmanufacturingexperience.com

36 days until Smart Manufacturing Experience 2022

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Step 1 Contact Details	Step 2 Demographics	Step 3 Refer a Colleague	Step 4 Registration Options	Add-on Items	Review Information	

Contact Details

Welcome to the Smart Manufacturing Experience! As a CESMII Member your Full Conference Registration is provided. Please complete the registration process below.

Fields with an asterisk (*) are required.

Badge/Name Information	
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Prefix	Please Select	~
First Name	•	
Last Name	•	
Suffix		

We are proud to share that all CESMII members are eligible to attend the Smart Manufacturing Experience, June 7 – 9 at the David L. Lawrence Convention Center in Pittsburgh, **free of charge**

To take advantage of this offering you must complete your registration through this member-only link*

*This link should only be given/shared to current CESMII members

General Registration can be found here





Travel Accommodations

Omni is the preferred hotel for CESMII members

OMNI WILLIAM PENN HOTEL

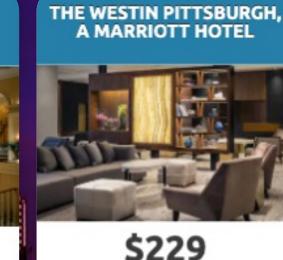


\$239 USD | avg/night

Up to 20 rooms available

distance

0.5 Miles



USD | avg/night

Up to 20 rooms available distance rating

0.2 Miles

Booking Deadline May 18th Book Hotels Through Event Website

- Lowest price guarantee
- No booking or service fees
- Protection from scammers
- Immediate confirmations no waiting or wondering
- Customer service to ensure a hassle-free hotel experience
- No change or cancellation fees up to
 72 hours before the event
- Descriptions, photos and maps to help you choose the perfect hotel



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Smart Manufacturing Experience 2022

 (Δ) APP GUIDE

1

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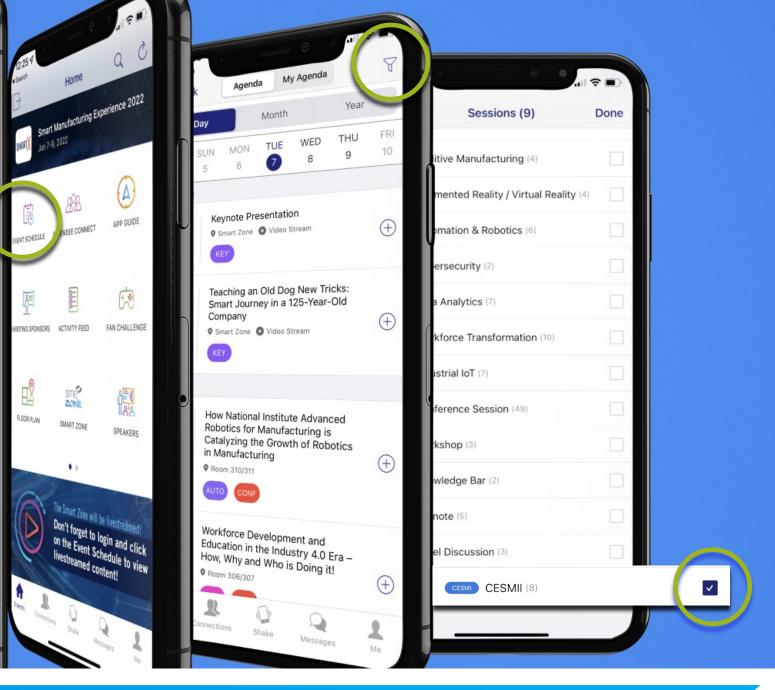
- Additive Manufacturing • Resources
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- AND MORE! •





Locating **CESMII** Member Sessions

- Download "SME Events Live!" App
- Login to "Smart Manufacturing Experience" Event
- Select "Event Schedule"
- Select "Filter" icon in the upper right
- Select "CESMII" at the bottom









Tuesday, June 7

	Industrial IoT: Sensors to Platform	Business & Workforce Transformation	Automation & Robotics	Smart Zone Theater	Smart Manufacturing Knowledge Bar	Exhibition Floor		
9:00 – 10:00	Keynote: Teaching an Old Dog New Tricks - Smart Journey in a 125-Year-Old Company: John F. Butler, Vice President, Technology & Engineering, Arconic Corporation							
10:15 - 10:45				Supply Chain Challenges and Opportunities for Increasing Resiliency Thorsten Wuest, WVU Jim Wetzel, NxGen				
10:50 - 11:20	How to Move Toward a Truly Unified Namespace Jonathan Wise, CESMII	Tackling the Need for Smart Manufacturing Skills Conrad Leiva, CESMII Jeannine Kunz, Tooling-U	Click on session boxe	s for more information	CESMII's Project Portfolio, Accomplishments and Value Haresh Malkani & Miguel Corcio CESMII	Exhibit Hall Hours 10:00 – 5:00		
11:25 - 11:55	Standardizing Carbon Footprint Reporting with Information Modeling Doug Lawson, ThinkIQ	Scalable Smart Manufacturing Workforce Development Community Model with VR/ Digital Twin Technologies Amarnath Banerjee, Texas A&M Paul Perkins, Amatrol			Smart Manufacturing Education: Showcasing the Art of the Possible at the Digital Foundry Joe Cuiffi & Sherri McCleary Diaital Foundry	Visit CESMII booth to see the latest on the SM Innovation Platform, Technology Projects, Education & Workforce Dev., and Ecosystem.		
12:45 - 1:45	Smart Manufacturing Lead	lership Panel: The Role of Smart Manu	facturing in Creating a More Productive	Resilient and Data-Driven Enterprise M	oderator: John Dyck, CESMII			
12.45 - 1.45	Panelists: Ken Creasy, Johnso IT / OT	on & Johnson, Matt Bauer, Harpak-ULM Additive				See live demonstrations, talk to		
	Cybersecurity	Manufacturing	Augmented Reality & Virtual Reality	Smart Zone Theater	Smart Manufacturing Knowledge Bar	subject-matter experts, and		
2:15 - 2:45			A Digital Twin Solution for Continuous Casting of Steel Manufacturing		Workforce Development and Training Opportunities for Manufacturers Conrad Leiva. CESMII	understand how CESMII can help you in your SM Journey.		
	Coordina Manufacturian		Chenn Zhou, Purdue University		Paul Perkins, Amatrol Joe Cuiffi, PennState Kris Ward, SME	And visit our member company booths on the exhibition floor.		
	Secure Manufacturing Architecture for Smart			MEP and the Smart Manufacturing Journey	The Power of the			
2:50 - 3:20	Manufacturing & Supply Chain Wayne Austad & Gabriela Ciocarlie CyManII			Matt Minner, Catalyst Connection	CESMII Ecosystem Haresh Malkani & Conrad Leiva, CESMII	Showfloor Layout		
3:25 - 3:55	Interoperability Is the Key to Realizing Industry 4.0 Results				Ask the Expert: How to Move Toward a Truly Unified Namespace			
	Michael Monzi, Foven Zuletro				Jonathan Wise, CESMII			
	Michael Manzi, Feyen Zylstra				Chris Muench, C-Labs			

5



TUESDAY, 9:00 – 10:00AM

Teaching an Old Dog New Tricks – Smart Journey in a 125-Year-Old Company: John F. Butler, Vice President, Technology & Engineering, Arconic Corporation



5

investment in Smart technologies. To achieve success on the world stage, there needs to be the creation of a more diverse

and upskilled workforce that can participate in Smart

Manufacturing value creation.

on the Riverview Terrace for a

Smart Manufacturing 15th Anniversary Celebration

TUESDAY, JUNE 7th 5:00 PM -7:00 PM





Many in the industry might not realize it, but the term "smart manufacturing" has been with us for 15 years now. It originated at a 2007 National Science Foundation workshop on a then-novel Internet capability known as "cyberinfrastructure."

That workshop led to the formation of the Smart Manufacturing Leadership Coalition (SMLC) and ultimately the Clean Energy Smart Manufacturing Innovation Institute (CESMII).

CESMII's sole purpose is to accelerate the democratization of Smart Manufacturing throughout the United States. As with the rest of the CESMII leadership team and its 100-plus member companies, John Dyck, CEO, is firmly behind that mission, but is quick to point out that he's standing on the shoulders of other leaders who have helped to promote Smart Manufacturing throughout the United States over the past 15 years.

We look forward to celebrating and recognizing the efforts of all individuals who have made a significant impact in creating a more competitive manufacturing environment in the U.S. over the last 15 years.



Wednesday, June 8

	Additive Manufacturing	Business & Workforce Transformation	Artificial Intelligence & Machine Learning	Smart Zone Theater	Smart Manufacturing Knowledge Bar	Exhibition Floor		
7:00 - 8:30			CESMII Boa	ard Meeting				
9:00 – 10:00	Keynote: The Digital Twin Acceleration and Institutionalization: John Vickers, Principal Technologist, Space Technology Mission Directorate, NASA							
10:15 - 10:45			Al-Driven Operational Excellence in the Steel Industry Nikunj Mehta, Falkonry		Tired Of Software That Only Collects Data & Makes Predictions – Adapdix Can Kick Start Your Journey To Autonomous Manufacturing John Genovesi, COO, Adapdix			
10:50 - 11:20		Empowering the Augmented Worker in a Connected Factory Gilad Langer, PhD, Tulip			Low-Cost Integrations to Track Machine Utilization & OEE from Discrete Manufacturing Systems Craig Dory, RPI Aaron Muhl, TowardZero	Exhibit Hall Hours 10:00 – 5:00		
11:25 - 11:55		Getting Started on Your Journey: Using the CESMII SM Acceleration Tools for Fast Business Results Conrad Leiva, CESMII Jim Wetzel, NxGen			Low-Cost Solutions for Smart Manufacturing Implementation John Louka, CESMII Ananth Seshan, 5G Energy	on the SM Innovation Platform, Technology Projects, Education & Workforce Dev., and Ecosystem.		
12:45 - 1:45	Moderator: Jonathon V	Smart Ma Vise, CESMII Panelists: Harinderpal (H	anufacturing Interoperability and Harm ans) Hanspal, Momenta, Mike Clark, OP	onization C Foundation, Johannes Olbort, VDMA	– , Will Sobel, MTConnect	See live demonstrations, talk to		
	Business & Workforce Transformation	Automation & Robotics	Augmented Reality & Virtual Reality	Smart Zone Theater	Smart Manufacturing Knowledge Bar	subject-matter experts, and understand how CESMII can help		
2:15 - 2:45	Start Small for BIG Innovation Andrew Johnson, ShelfAware LLC				Ask the Expert: Small Manufacturers are Starting their Smart Manufacturing Journeys Conrad Leiva, CESMII Jim Wetzel, NxGen Mike Yost, Feyen Zylstra	you in your SM Journey.		
2:50 - 3:20			Using Vision to Scale Al/ML in Manufacturing Rob Schoenthaler, Think IQ	Al to Deliver the "Golden Batch" Barry Johnson, Symphony Industrial Al	SMMs Achieving Zero External Quality Failures via low-cost Smart Manufacturing Application Ananth Seshan & Badri Sridharan 5G Energy	booths on the exhibition floor.		
3:25 - 3:55	How SMMs are Making Progress on SM Journey Kevin Lamarr Jones, ECM Performance Materials Corp. Scott Whitlock, Flexware Innovation, Inc.				Why It's (Finally?) Time for Industrial Operations Platforms Russel Waddell, Tulip			
4:00 - 6:00	CESMII Annual Member Session							







Jonathan Wise Vice President of Technology



Harinderpal (Hans) Hanspal Venture Partner

Pane Wednesday, 12:45 – 1:45PM

Smart Manufacturing Interoperability and Harmonization

Smart Manufacturing, Industry 4.0, Big Data, new and old capital equipment – this panel will cover data interoperability and harmonizing new technology introduction to the manufacturing environment as well as applicable standards and approaches for practical affordable implementations of Industry 4.0 / Smart Manufacturing.



Mike Clark North America Management Consultant



Will Sobel Chief Architect VDMA

Johannes Olbort Project Leader Industry 4.0



WEDNESDAY, 4:00 - 6:00 PM

CESMII Member Annual Session

Institute Update (30 mins) Accomplishments Partnerships Market Survey and CESMII alignment Sustainability Approach

Update from 4 Pillars (60 mins) Technology (project success stories, highlights, RFP3, Roadmap, etc) SMIP and SM Marketplace highlights EWD highlights SMIC ecosystem highlights

Member Q&A and feedback (30 mins)



Thursday, June 9

	Data Analytics	Cybersecurity	Industrial IoT: Sensors to Platform	Smart Zone Theater	Smart Manufacturing Knowledge Bar	Exhibition Floor
9:00 – 10:00		Keynote: Transforming Manu	ufacturing Leveraging Industry 4.0: Bob N	McWard, Vice President, Raytheon Techr	nologies, Intelligence & Space	
10:15 - 10:45	Leveraging Real-Time Data Analytics in the Food Industry Rob Schoenthaler, ThinkIQ		IT/OT from Sensors to Platform Michael P. Manzi, Feyen Zylstra	Lessons Learned from Helping Companies Embrace Industry 4.0 Jeff Orszak, CONNSTEP	Creating Trusted and Agile Innovation Ecosystems Wayne Austad, CyManII Gabriela Ciocarlie, CyManII	Exhibit Hall Hours 10:00 – 4:00
10:50 - 11:20	Wavelet Analysis and Machine Learning for Tool Wear Inference in Precision Machining George Bollas, University of Connecticut	Cybersecurity Threat Awareness and What To Do About It Ken Fowler & Paris Stringfellow CyManll	Smart Manufacturing Innovation Platform Jonathan Wise, CESMI Doug Lawson, ThinkIIQ	Accelerate Smart Manufacturing in the Steel Industry with Time Series Al Nikunj Mehta, Falkonry	Pragmatic Principles in Deploying, Validating, and Scaling Operational Al AJ Alexander, Sorba	Visit CESMII booth to see the latest on the SM Innovation Platform, Technology Projects, Education & Workforce Dev., and Ecosystem. See live demonstrations, talk to subject-matter experts, and
11:25 - 11:55			Lessons Learnt in Implementing a DIY Low-Cost Smart Manufacturing Solution for a Small Manufacturer Joseph Thomas, Wipro Enterprises Ananth Seshan, 5G Energy	Mission Critical with Manufacturing USA institutes Panel 11:25 – 12:25	IDAES: A Next-generation, Multi- Scale Process Systems Engineering Framework for Optimizing Energy Systems and Manufacturing Processes Dr. Jaffer Ghouse, NETL	understand how CESMII can help you in your SM Journey. And visit our member company booths on the exhibition floor. Showfloor Layout
12:45 - 1:45		Attracting and T Moderator: Conrad Leiva, CES	Fraining the Next Generation Manufact MII Panelists: Jeannine Kunz, Tooling U	turina Workforce		

Raytheon Technologies

THURSDAY, 9:00 – 10:00AM

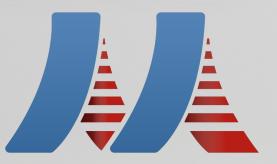
Transforming Manufacturing Leveraging Industry 4.0: Bob McWard, Vice President, Raytheon Technologies, Intelligence & Space



Smart Zone Theater

Mission Critical with Manufacturing USA institutes

Learn how institutes in the Manufacturing USA network spur innovation for SMMs to bring their proof of concept to pilot scale. Institutes will provide an overview of their advanced manufacturing technology, and how public-private partnership are vital to reshoring manufacturing and developing the next generation of advanced technologies, resilient supply chains, and the future workforce.



ManufacturingUSA®



















Attracting and Training the Next Generation Manufacturing Workforce

The manufacturing industry is facing a massive number of unfilled positions and the lack of skilled resources has become an obstacle for manufacturers seeking to implement implementing new technologies and methodologies on the factory floor. Manufacturers are seeking people with the right skills for the advanced manufacturing jobs of today and tomorrow and need ways to upskill their current staff for the complex manufacturing process of the future. This panel discusses the challenges and the types of education solutions that organizations are implementing to help close the gap. It is vital that manufacturers and educators act now to grow the next generation of industrial workers.



Showfloor Layout

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SMART MFG EXPERIENCE 06/07/22 - 06/09/22 DAVID L LAWRENCE CONVENTION CENTER SPIRIT OF PITTSBURGH BALLROOM PITTSBURGH, PA



Manufacturing Sme?

EDUCATION

SMART manufacturing View the <u>interactive map</u> of exhibiting partners.

Smart Zone is where all Keynote, Panel, and Smart Zone Theater presentations will take place.

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24

SMART MANUFACTURING Powered by

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Showfloor Layout

SMART MEG EXPERIENCE 06/07/22 - 06/09/22 AVID L LAWRENCE CONVENTION CEN SPIRIT OF PITTSBURGH BALLROO PITTSBURGH, PA

The upper right corner of the showfloor will house the "CESMII Pavilion" – this includes the <u>CESMII Booth</u>, all <u>CESMII Member exhibitor</u> <u>booths</u> and the Smart Manufacturing Knowledge Bar (example below)

ART ZONE

SME ThinkIQ 624.626

CESM

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GE Digital

Augmentir

Plex Systems, a Rockwell

Automation Company

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ShelfAware

Technologies USA Ltd

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Litmus SymphonyAI

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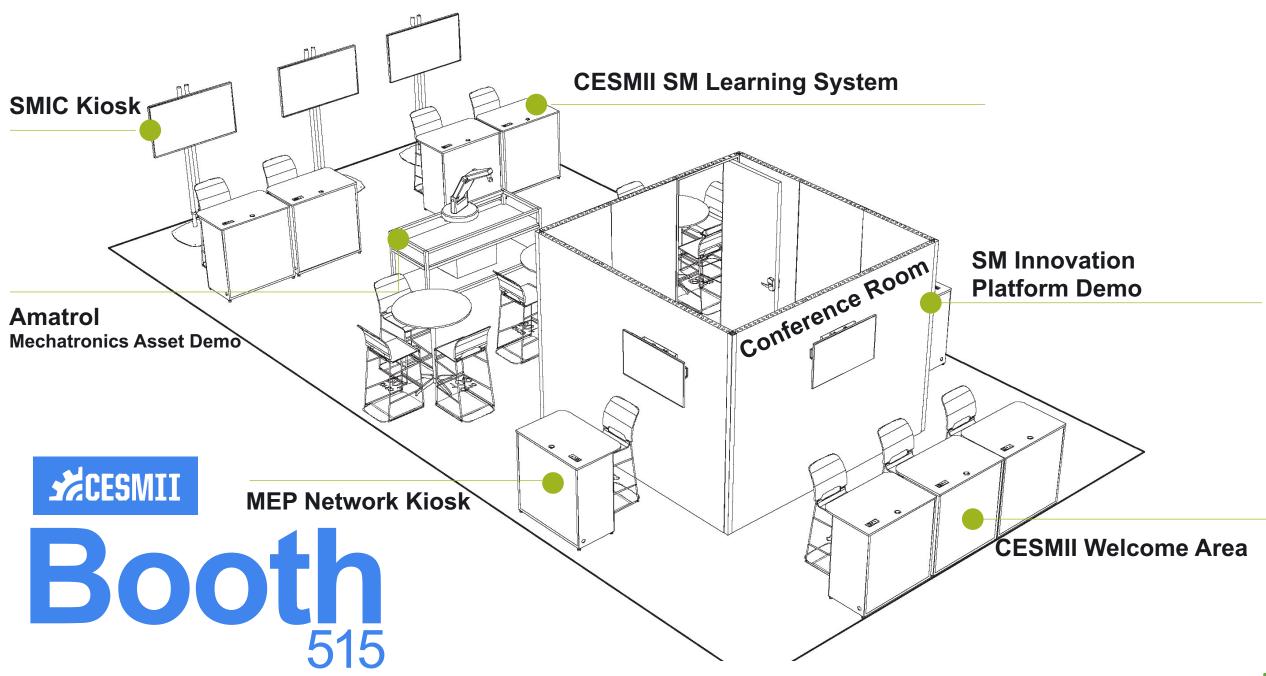
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709 Pittsburgh Regional Alliance

707 Pittst

SME

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Showfloor Layout

Smart Manufacturing Experience 2022

SPIART PIPE EXPERIENCE 06/07/22 - 06/09/22 AVID L LAWRENCE CONVENTION CENTER SPIRIT OF PITTSBURGH BALLROOM

We will have 7 Manufacturing USA institutes in attendance – with each having their own presence under one **united** <u>and strategic footprint.</u> America Makes





REMADE INSTITUTE



215 😛

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