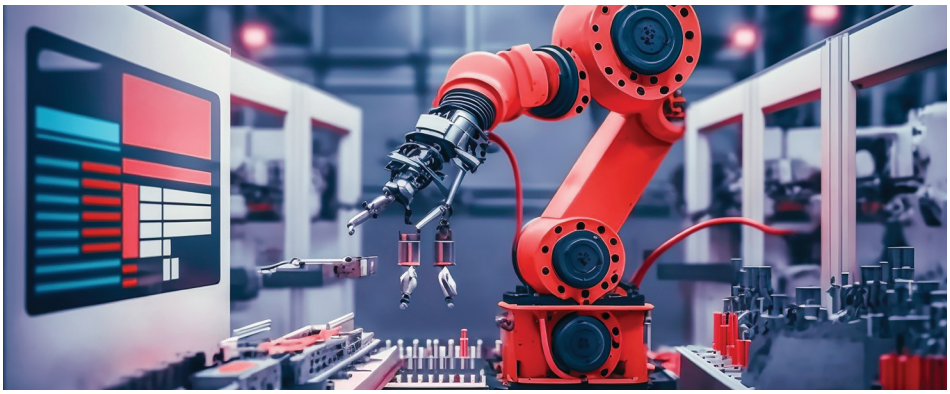
NC STATE UNIVERSITY

Industry Extension Services

ies.ncsu.edu @NCStateIES



# Advanced Manufacturing and Technology Readiness

Technology is a critical driver of business growth—whether your objectives include improving time-to-delivery, ensuring consistent quality, strengthening workforce training, optimizing materials management, addressing labor gaps, or controlling costs.

Industry Extension Services' Advanced Manufacturing and Technology Readiness team partners with organizations to evaluate current manufacturing processes, conduct in-depth analyses, and design a clear path toward a high-performing future state. Using a structured, phased approach, we prioritize practical, cost-effective solutions that can be implemented quickly while building long-term organizational capability and operational efficiency.

From understanding smart sensing, robotics, vision, and software automation to simply relating your business's key process parameters and metrics, Industry Extension Services technology specialists can help you understand what technology exists to help you bring the right solutions to your operations.

Visit **ies.ncsu.edu/technology** to learn more.

## Automation and Technology Readiness Assessment

Our automation specialist will provide an onsite assessment of the current state and process optimization before you invest in equipment. The assessment identifies operational needs and transition requirements, uncovering opportunities for process improvement, and evaluating cost-effective technologies tailored to your specific applications. Schedule a visit with your Regional Manager.

## We Can Help.

- Advanced Manufacturing & Technology Deployment
- Business Growth, Innovation & Marketing
- Business & Operational Assessments
- Cybersecurity Strategies
- Defense Industry Initiatives
- Environment, Energy & Sustainability Services
- Evaluation Services & Resource Development
- Industrial & Systems Engineering
- Instructional Design
- Leadership & Organizational Development
- Management Systems & Quality
- Process Optimization & LEAN
- Project Management
- Southeastern OSHA Training Institute Education Center
- Supply Chain & Supplier Matching
- Workplace Health & Safety

## Additive Manufacturing Introductory Course

This on-demand, introductory course on Additive Manufacturing (AM) is designed specifically for small and medium-sized manufacturers who want to learn how AM technologies can be applied to current operations and future growth opportunities. The course is self-paced, allowing participants to explore the fundamentals of AM at their own convenience.

## Introductory AI Training for Manufacturing Course

Our Introductory AI Training for Manufacturing course is designed for organizations with teams of 10 or more employees seeking practical, on-site training in generative AI. This beginner-friendly course requires no prior AI or technical experience and provides participants with a clear understanding of how generative AI works, where it can improve efficiency and consistency in manufacturing, and how to communicate effectively with AI tools to produce useful results.

This course is also offered as an open enrollment course if you do not have 10 or more attendees per organization. Check the schedule: **ncstateies.com/AI-productivity**

## 3D Digital Twin Scan Technology

A 360-degree digital twin facility scan enables users to virtually navigate and explore a facility from any location. This technology supports more effective facility planning by enabling equipment relocation assessments, capital expansion planning, and enhancing workforce training, improves operational efficiency, workflow visualization, remote collaboration, safety, compliance and risk mapping, and streamlining decision-making by providing employees, contractors. and stakeholders with comprehensive asset tracking.

## Technology Scouting Service

Staying competitive in manufacturing often requires identifying the right processes, materials, and technologies to meet customer expectations for quality, cost, and delivery. Our Technology Scouting service helps organizations uncover and evaluate emerging solutions, ensuring your operations stay efficient, innovative, and responsive to market demands.

**Connect with your Regional Manager to begin the conversation. ncstateies.com/RM**

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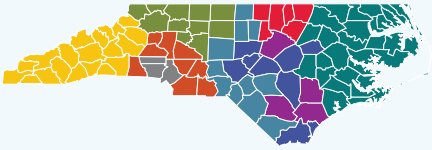
**We Can Help.** **919.515.2358 | iesservices@ncsu.edu**

NC State University Industry Extension Services, established in 1955 as the outreach team for the NC State University College of Engineering, provides resources, tools and customized training programs to help businesses survive, thrive and grow.

**ies.ncsu.edu** **@NCStateIES**

## Connect With Your Regional Manager

**ncstateies.com/RM**



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