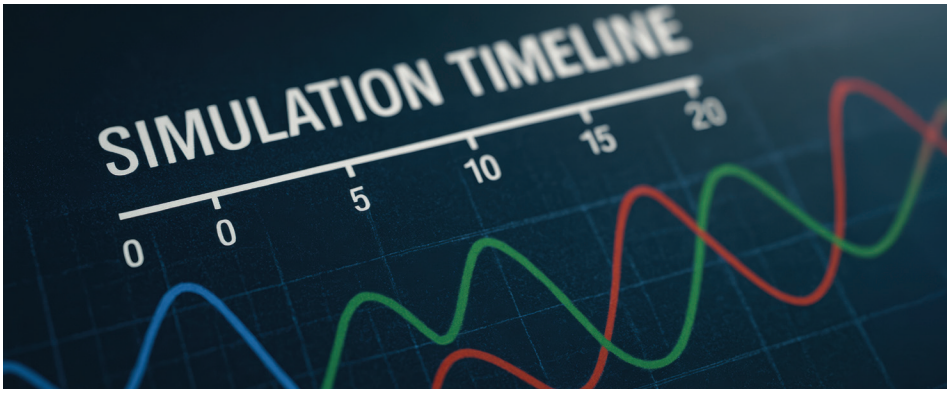
NC STATE UNIVERSITY

Industry Extension Services

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# Process Simulation Services

## Optimize Your Operations Before You Make the Investment

Make smarter decisions before making costly changes. Industry Extension Services uses advanced process simulation technology to help manufacturers virtually test, analyze, and optimize production processes before implementing changes on the shop floor.

By creating digital models of your operations, we enable you to visualize workflows, evaluate production scenarios, identify bottlenecks, and validate improvements—without disrupting current production. Process simulation gives you the confidence to make data-driven decisions that reduce risk, improve efficiency, and maximize return on investment.

Whether you're introducing a new product, adding equipment, redesigning a facility, or expanding production capacity, our experts provide the insights you need to move forward with confidence.

## Our Services Include:

- Production process simulation
- Workflow and material flow analysis
- Bottleneck identification
- Equipment utilization studies
- Staffing and labor analysis
- Facility and production line optimization
- Capacity planning and expansion modeling
- Scenario testing and "what-if" analysis
- Operational performance evaluations
- Data-driven improvement recommendations

## 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



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## Benefits:

- Identify bottlenecks before they impact production
- Evaluate multiple improvement scenarios without disrupting operations
- Reduce risk associated with equipment purchases and capital investments
- Improve workflow, material movement, and resource allocation
- Increase throughput, productivity, and operational efficiency
- Optimize staffing levels and equipment utilization
- Support facility expansion and future growth planning
- Shorten implementation timelines and reduce costly trial-and-error
- Make informed decisions backed by data and simulation

## Turn Data Into Better Decisions

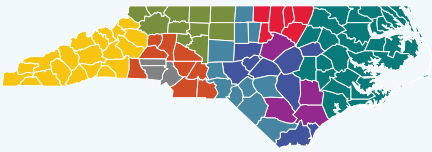
Our experienced manufacturing specialists work closely with your team to model real-world operating conditions and deliver actionable recommendations that improve performance, reduce costs, and support long-term operational success.

## See the results before you make the change.

**Contact your Regional Manager today to schedule a Process Simulation assessment and discover how Industry Extension Services can help optimize your manufacturing operations. ncstateies.com/RM**

## Connect With Your Regional Manager

**ncstateies.com/RM**



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NC STATE UNIVERSITY Industry Extension Services

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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.

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*07-20-2026*