

UConn Tech Park

Supporting Small Businesses in Connecticut

Advanced Manufacturing and Automation

- ✓ Finite element modeling and simulation *Simulations can identify potential failure points to improve product quality*
 - ✓ Machining, forming, forging, and casting validation *Not sure if your design will work? Let us validate it for you*
 - ✓ Manufacturing process optimization *Improve feeds and speeds, or find root causes of manufacturing issues*
 - ✓ 3D printing and prototyping *Support for rapid prototyping before full-scale production*
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Materials Science

- ✓ Materials characterization and testing, failure analysis, and forensic examination *We can help develop failure reports to address warranty concerns*
 - ✓ Remote access to high end microscopy *Give your microscopists access to top end equipment*
 - ✓ Electrical insulation testing *Ensure reliability and compliance of power distribution components*
 - ✓ Mechanical, thermal, and molecular analysis *Gain insights into material properties and performance*
 - ✓ Structural and chemical analysis *Assess composition, stability, and integrity of materials*
 - ✓ Composite materials development and testing *Optimize strength, durability, and functionality of your designs*
 - ✓ Corrosion analysis *Gain insights and mitigation strategies to enhance material durability*
 - ✓ Rheological and interfacial measurements *Predict material processability and product stability*
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Energy and Sustainability

- ✓ Free facility energy audits *Receive a detailed report with cost reduction strategies and efficiency optimization, including assessments of electricity use, heat generation, waste production, equipment efficiency, and overall operational performance*
 - ✓ Energy management services *Monitor, analyze, and optimize energy usage with real-time insights*
 - ✓ Renewable energy microgrid integration *Assess feasibility of solar, wind, or battery storage solutions to lower your energy bills*
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Data Sciences

- ✓ Cybersecurity assessments *Identify risks and safeguard critical systems*
 - ✓ Hardware security and circuit debugging *Detect vulnerabilities and optimize electronic performance*
 - ✓ Computational access to GPUs *Accelerate data processing and AI model training*
 - ✓ AI-driven fault detection and diagnostics, and health prognostics *Enable predictive maintenance for manufacturing and infrastructure*
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Short Courses and Expert Consulting

- ✓ Non-credit training and consulting tailored to your business needs *Covering topics like advanced manufacturing techniques, AI-driven process optimization, and more, Conn's tailored short courses can power up your engineering team. Faculty experts also provide consulting, offering insights in engineering, healthcare, data science, and other key areas*
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Senior Design Projects

- ✓ Support from Senior Design teams *Access UConn engineering seniors for small projects to support your business needs across a broad range of fields, from materials science to life sciences*
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Contact Us



michael.didonato@uconn.edu



www.techpark.uconn.edu