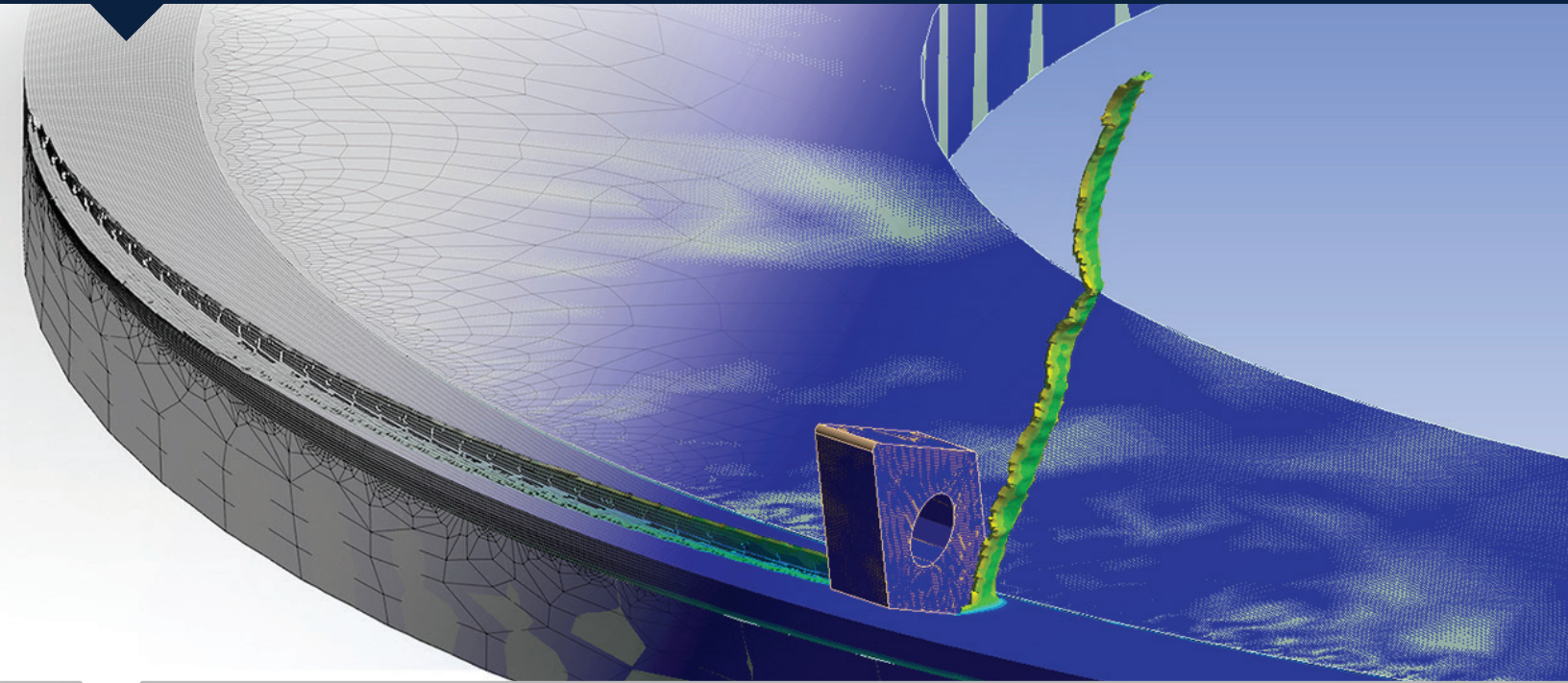


UConn Enterprise Solution Center (ESC)

INNOVATION PARTNERSHIP BUILDING AT UConn TECH PARK



About

Mission

The Enterprise Solution Center (ESC) is an innovation hub that connects small and medium manufacturing enterprises (SMMEs) to science and engineering resources at UConn and to major original equipment manufacturers (OEMs). These connections support innovation and technology infusion and create business opportunities through collaboration on new products and services. The ESC develops targeted strategies to enhance SMMEs' technology and manufacturing capabilities, leading to competitive products and services, stimulating direct job growth, and promoting economic development.

Our Approach

The ESC comprises three component organizations, Quiet Corner Innovation Cluster (QCIC), Proof of Concept Center (POCC) and Connecticut Manufacturing Simulation Center (CMSC), taking an integrated approach to co-development of technology products and services to support the competitiveness of SMMEs and the OEMs.

Areas of Expertise

QCIC

- Business Process Optimization
- Technology Development
- R&D Commercialization
- Product Development
- Business Model Development
- Prototyping and Proof of Concept
- Market Research
- Rapid Prototyping
- Research and Development Evaluation
- Materials Science

POCC

- Design, Prototyping, and Verification
- Product Development
- Design for Manufacturing
- Additive Manufacturing for Prototyping
- Additive Manufacturing for Manufacturing
- Laser Cutting / Abrasive Water Jetting
- CNC Machining
- Reverse Engineering

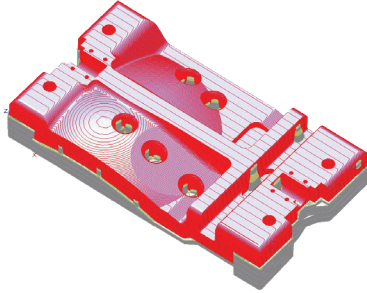
CMSC

- Finite Element Modeling and Simulation
- Analysis of Residual Stresses and Distortions
- Machining Simulation (Turning, Milling, Cutting)
- Sheet Metal Forming Simulation
- Hot Press Forming Simulation
- Heat Treat Simulation
- Metal Forging Simulation
- Casting Simulation

Center Characteristics

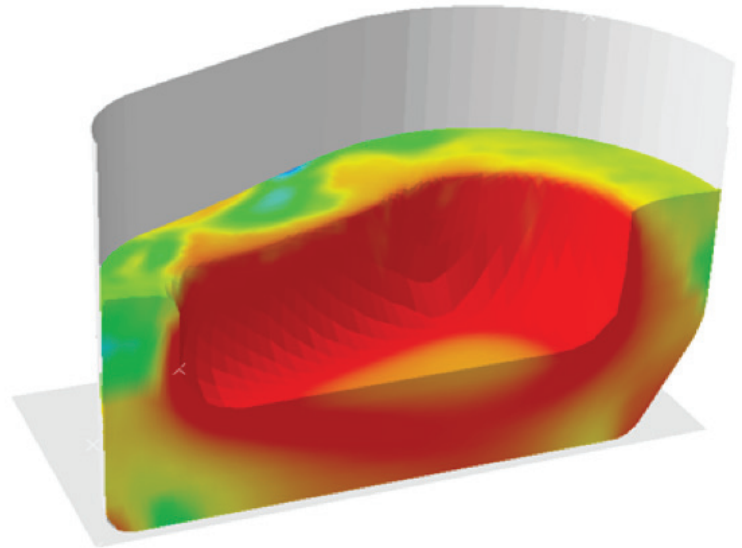
Quiet Corner Innovation Cluster (QCIC)

QCIC partners with SMMEs to promote business growth through innovation, enhanced R&D, and updated business capabilities. The QCIC builds the innovation capacity of SMMEs through a strategic engagement process that develops targeted growth plans and manufacturing innovation strategies to increase SMMEs' technology-based manufacturing capabilities. The QCIC leverages the Proof of Concept Center, UConn's research infrastructure, and the extensive R&D capacity of UConn's faculty to codevelop new products and services.



Connecticut Manufacturing Simulation Center (CMSC)

CMSC provides SMMEs with affordable technical assistance for computer-based design, finite element modeling and simulation, testing, and validation that is capable of supporting new product and process development innovations and improving SME competitiveness. CMSC has capabilities in modeling a variety of manufacturing processes, including machining, forming, forging, and casting. Training for students and professionals is also available.



Simulation of Metal Forging

Proof of Concept Center (POCC)

The POCC offers state-of-the-art prototyping and fabrication equipment that facilitate new product development, from conceptualization and ideation to creation of fully functional prototypes for a wide range of industries. By applying the latest design strategies and manufacturing technologies, industry partners, researchers, and students are empowered to build, modify, and assemble, thereby accelerating the discovery of novel products and services.

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