

# Collaborate with Us

Our **concept-to-completion** capabilities allow us to quickly respond to client needs and provide optimal solutions with **shorter turn-around times**.

Having all aspects of technology and engineering in one location allows for experience and knowledge to be shared among members during all stages of our projects.

# About Us

The Technology Application Center is a dedicated workspace for accelerating the development of products and solutions through collaboration, rapid prototyping and testing.

The facility contains collaboration space, robotics, a state-of-the-art machine shop, metal and plastic additive manufacturing, and NDE capabilities.

The Technology Application Center is cost-effective engineering that enables faster response, improves safety and productivity, and quickly verifies return on investment.

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# Technology Application Center

Automation

## Published by

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# Automation

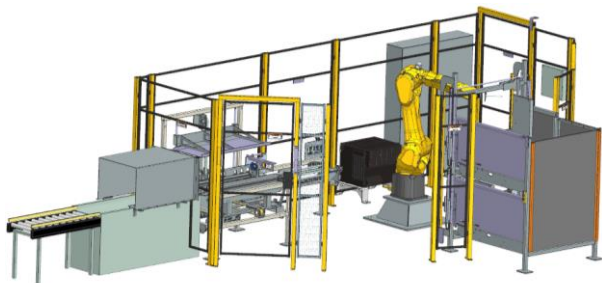
The Technology Application Center designs and develops **custom automated solutions** based on specific customer needs.

The Center is equipped with an automation team that is well-versed in industrial automation, robotic integration, and mechatronic design.



## Industrial Automation

Ranging from simple PLC systems to fully integrated autonomous solutions, we can design and deliver the automation needed to increase facility productivity.

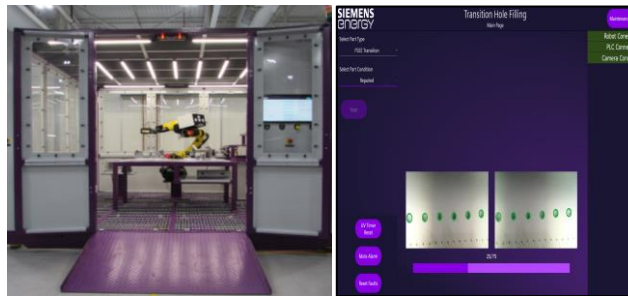


## Robotic Systems

Our team of robotic experts is ready to automate your manual process by integrating various robots and sensors.

The TAC's portfolio of deliveries includes robotic milling, hole filling, grinding, pick & place, inspections, and more.

Using knowledge from previously integrated systems, the TAC has a vast library to reduce the cost of integration.



Hole-filling development cell

Hole detection software

## Advanced Sensors & Vision

At the TAC, the automation team develops the tools required for complex sensor integration.

The TAC's multidisciplinary team reduces the cost of integration and eliminates the need of third-party involvement, allowing for solutions to be more quickly developed and commissioned.



Water detection sensor developed, manufactured, and tested by TAC team.

## Robotic Integration

Robotic integration uses robotic systems in strategic areas to perform automated tasks. The TAC analyzes your current process to determine where improvement can be made to develop an automated solution.

The TAC has developed solutions for:

- Cooling hole filling and masking for repair processes
- Ultrasonic inspection on cast turbine parts
- Ultrasonic testing on transition panels
- Dual robotic inspection system



Ultrasonic inspection system on transition panels



Dual robotic rail inspection system