

# 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 (TAC) 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 TAC 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

Machine Shop

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## Machine Shop

The Technology Application Center houses a state-of-the-art machine shop that allows us to get your product out the door with a quick turn-around time. We have the latest technology in digital machining to ensure **precise and quick production.**



### CNC Machining

Our machine shop holds 3-axis and 5-axis milling machines that can form designs from almost any metal alloy or engineered plastics like PEEK and Teflon.

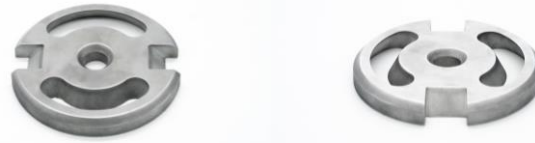
We have 3-axis CNCs for simple parts and 5-axis CNCs to machine more complex geometries.

### CNC Turning

The Center houses a manual lathe, a small part lathe, and a large-scale CNC live tool lathe. These machines are used for turning cylindrical parts.

### Waterjet Cutting

Utilizing the waterjet process, we can virtually cut any material. It is a cost-effective solution for plate manufacturing. Its speed and large format cutting make the waterjet a favorable option for industrial mounting plates, brackets, and basic fixtures.



### Electric Discharge Machining (EDM)

The sinker EDM is widely used for highly complex geometries and maintains tighter tolerances than traditional CNC machines.

The wire EDM can be used for thin-wall machining and cutting intricate and precise geometry.



### Sheet Metal Fabrication

Sheet metal fabrication is a valuable manufacturing process that allows us to turn thin metal sheets into robust functional parts such as panels, brackets, and enclosures. Sheet metal parts are favored by a wide range of industries including industrial, aerospace, robotics, and energy.



### Laser Engraving

Fiber laser engraving is a precise and efficient method of marking or etching materials using a fiber laser. This technology employs a high-powered laser beam, which is generated through optical fibers doped with rare-earth elements.

The laser beam is directed onto the surface of the material, creating permanent marks by removing a thin layer or altering the material's surface properties.

Fiber laser engraving is known for its high speed, accuracy, and ability to work with a wide range of materials, including metals, plastics, and ceramics.

It is commonly used in industries for applications such as product identification, branding, and traceability.