GTRI Machine Services:
If you can dream it we can build it!

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The **Machine Services Department** of the Georgia Tech Research Institute combines decades of experience with the latest high-tech tools. This allows us to provide creative and customized machining and fabrication solutions quickly and affordably.

**Experience:**
For more than 60 years, GTRI’s Machine Services Department has been designing, fabricating, assembling and repairing the parts and prototypes needed by researchers across Georgia Tech and from many other schools and partner organizations. Our team of veteran craftsmen has more than 150 years of combined experience and a true commitment to quality.

**Creativity:**
The diversity of the work we do offers ample opportunity to be creative. Some of our clients bring us very complete drawings, while others simply come to us with an idea. Our experienced team helps bring all ideas to reality by first capturing a rough image on paper and then refining concepts into full-scale designs that can be machine-tooled. We use three different types of programming and design software — SurfCAM, AutoCAD and SolidWorks — and have hundreds of high-end tools right at our fingertips to get the job done right each time.

**High-Tech Tools:**
We invest in the most advanced machines and tools on the market. Replacing old-fashioned manual equipment with new computer-based tools like the Fadal Vertical Machining Center, Mori Seiki CNC Lathe, Charmilles 290P Wire EDM and HD 20-Hole Driller and the Omax Waterjet gives us the opportunity to fabricate large and small items with extreme precision and unmatched speed.

**Custom Work:**
Unlike industrial fabrication shops that produce large quantities of a particular item, our work is highly custom — and varied. Our projects run the gamut from tiny medical devices smaller than a shirt button to large-scale military vehicles. Recent projects include an antenna currently part of the International Space Station, an inspection robot that identifies corrosion in helicopter fuel tanks, a walk-in environmental chamber for assessing emissions from products, a magnetic system that quickly erases information from computer hard drives, an automated system for placing road-reflectors along lanes of traffic, a large-scale wind tunnel for the US military and a tiny medical device being used for heart research.

**Speed and Affordability:**
Speed equals savings for customers. In the past, cutting a large circular hole in a sheet of metal used to take a couple of hours, but with today’s technology our shop can do it in about 15 minutes. Time is money and the latest computer-based tools allow us to work quicker, passing the savings along to you! Any time we see a way to save time or money without compromising quality, we say so.