



Technology Center





Metallurgy Mastered.

- Materials Testing & Characterization Lab
 - Scanning Electron, Light, & Laser Microscopes
 - ASTM Wear Testing: Abrasion, Erosive, Metal on Metal
 - Metallurgical Preparation
- Research & Development
 - Exclusive to Fisher Barton Customers
- Advanced Manufacturing & Automation
 - Innovative production & manufacturing support

Welcome to the Fisher Barton Technology Center

At the Fisher Barton Technology Center, we are dedicated to pushing the boundaries of innovation and excellence in the manufacturing world. Our state-of-the-art facility is home to our Research & Development, Laboratory Services, and Advanced Manufacturing Teams. We offer a comprehensive suite of services designed to meet the diverse needs of our customers, from new product introductions to advanced engineering solutions.

Our Technology Center is a hub of cutting-edge research and development, where our team of experts works tirelessly to create innovative solutions that enhance product performance and reliability. By leveraging our extensive knowledge in metallurgy, surface engineering, and advanced manufacturing processes, we are able to deliver products that not only meet but exceed industry standards. Our commitment to quality and continuous improvement ensures that our customers receive the best possible outcomes for their projects.

One of the key strengths of the Fisher Barton Technology Center is our ability to provide tailored solutions that address specific customer needs. Whether it's developing cost-effective manufacturing processes, applying advanced coatings for enhanced electrical and thermal control, or enhancing product durability through improved wear resistance, our team is equipped with the expertise and technology to deliver exceptional results. Our collaborative approach ensures that we work closely with our customers to understand their challenges and develop customized solutions that drive success.

What We Offer

New Product Introductions: Our team collaborates closely with customers to bring new products to market efficiently and effectively. We provide end-to-end support, from initial concept through to final production.

Engineering Expertise: Our highly skilled engineers, backed by extensive education and experience, are at the forefront of technological advancements. They leverage cutting-edge tools and methodologies to solve complex challenges and optimize product performance.

Metallurgical Lab Services

Materials Analysis: Utilizing advanced techniques such as Scanning Electron Microscopy (SEM) with Energy Dispersive X-ray Spectroscopy (EDS) and Glow Discharge Optical Emission Spectroscopy (GDOES), we provide detailed insights into material composition and properties.

Mechanical Testing: Our comprehensive testing capabilities include drop weight, abrasion, fatigue, and erosion testing. These rigorous tests ensure that our products meet the highest standards of durability and reliability.

Research and Development

Our R&D team consists of experts in Materials and Surface Engineering and will partner with you to select the best materials and processes for your product.

Surface Engineering Technology: Our expertise in surface engineering allows us to enhance the performance and longevity of our products. We employ advanced coating and treatment processes to improve wear resistance, corrosion protection, and overall product quality.



Offline Prototyping

To ensure seamless production, we utilize offline prototyping in our lab. By leveraging small-scale surface engineering, heat treating, and machining, we can develop and test new processes without interrupting ongoing production. This capability allows us to innovate continuously while maintaining the highest levels of quality and efficiency.

Advanced Manufacturing Team

We don't just design products; we design manufacturing processes that produce higher quality products at better prices. Our Advanced Manufacturing Team specializes in developing innovative automation solutions that enhance production efficiency and reduce costs. This approach allows us to bring products to market faster and more reliably.



Our Advanced Equipment

Our lab is equipped with a range of advanced equipment to support our comprehensive testing and analysis capabilities:

- **Scanning Electron Microscopes (SEM):** These provide high-magnification imaging and detailed analysis of material surfaces.
- **Energy Dispersive X-ray Spectroscopy (EDS):** Used in conjunction with SEM, EDS allows for elemental analysis and chemical characterization.
- **Glow Discharge Optical Emission Spectroscopy (GDOES):** This technique is used for depth profiling and surface analysis of materials.
- **Drop Weight Testers:** These are used to assess the impact resistance and toughness of materials.
- **Abrasion Testers:** These machines evaluate the wear resistance of materials under various conditions.
- **Fatigue Testers:** These devices test the durability of materials under cyclic loading conditions.
- **Erosion Testers:** These are used to measure the resistance of materials to erosive wear.



Our Expert Team

The Fisher Barton Technology Center is staffed by a team of highly skilled engineers and technicians with extensive experience and advanced degrees in their respective fields. Our team includes:

- **Materials Engineers:** Experts in materials and process selection as well as testing and characterization. Furthermore, many of our engineers are experts in surface engineering processes including: thermal spray, weld overlays, laser-cladding, and heat-treatment.
- **Mechanical Engineers:** Our mechanical engineering staff are experts in new product design and development. Ensuring ease of manufacturing while meeting the rigorous demands of the application.
- **Technicians:** Skilled individuals with decades of experience in surface engineering, machining, and laboratory operations.

Our team members are recognized leaders in their fields, contributing to professional organizations and staying at the forefront of industry advancements.

Why Choose Fisher Barton?

The Fisher Barton Technology Center is unique in the manufacturing world. Our facility is equipped with the latest technology and staffed by a team of experts who are passionate about innovation. Our engineers hold advanced degrees and have extensive experience in their respective fields, ensuring that our customers receive the highest level of service and expertise.

We pride ourselves on our ability to deliver customized solutions that meet the specific needs of each customer. Experts in materials and process selection as well as testing and characterization. Furthermore, many of our engineers are experts in surface engineering processes including: thermal spray, weld overlays, laser-cladding, and heat-treatment. Our team has partnered with our customers to drive new solutions from the lab bench and into production. With a proven track record of driving solutions in the agricultural, chemical, construction, defense, and bio-medical industries.

Experience the difference that our state-of-the-art lab and dedicated team can make for your business. Contact us today to learn more about how we can help you achieve your goals.



The Fisher Barton Technology Center is ready to optimize your products performance. Visit fisherbarton.com or call for detailed information on all our capabilities.

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