

## ***RESEARCH & DEVELOPMENT INTERNSHIP***

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### **COMPANY OVERVIEW**

The Fisher Barton Group consists of seven world-class manufacturing companies (eight facilities with 900+ employees) that produce a wide range of products for multiple industries, including: bronze gear blanks, lawn mower blades, agricultural wear components, industrial blades, thermal spray coatings, oil and gas components, and medical devices. The Fisher Barton Technology Center (located in Watertown, WI) is the research and development headquarters that serves all divisions in the Fisher Barton Group. The Technology Center is responsible for the development of thermal spray, laser clad, weld overlay coatings, heat treating processes, process development, laboratory testing, metallurgical analysis, new product development, and automation solutions. Our commitment is simple: to research and develop material solutions and processes, and to deliver products that perform better for a longer duration.

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### **JOB OVERVIEW**

The Fisher Barton Technology Center is looking for R&D Intern for the summer of 2018. The internship runs from late May through August. The R&D Intern will support the Technology Center team by working in the metallurgical/mechanical testing lab and coating process area on assigned projects. The Intern will gain experience in using and maintaining lab equipment, conducting and analyzing the results of lab tests, managing business-critical projects, and collaborating with cross-functional engineering teams throughout the business.

### **ROLE AND RESPONSIBILITIES INCLUDE, BUT ARE NOT LIMITED TO:**

- Preparation of lab specimens, including saw cutting, surface grinding, mounting, and polishing
- Operate and conduct laboratory material tests, including macrohardness, microhardness, tensile and fatigue testing, impact toughness, wear resistance, scanning electron microscopy, optical emission spectroscopy, metallography, X-ray diffraction, and X-ray fluorescence
- Conduct and analyze heat treating and coating (thermal spray and laser cladding) experiments
- Assist engineering team with the development of new processes and products
- Inspect raw material during receiving
- Maintain and calibrate laboratory testing equipment
- Prepare lab reports, presentations, and communicate results with engineers or customers
- Coordinate projects with engineers and co-workers across businesses at Fisher Barton
- Complete additional projects and responsibilities as assigned

### **QUALIFICATIONS:**

- Pursuing a four-year Materials Science, Chemical, Welding, or Mechanical engineering degree
- Demonstrated ability to manage multiple and, at times, conflicting priorities
- Ability to communicate effectively and professionally within all areas of the business
- Proficiency in MS Office including Excel, Word, and PowerPoint
- Strong analytical skills
- Ability to work in a team
- Ability to be self-directed and work independently
- Ability to multi-task
- Experience working with SolidWorks preferred
- Experience working in a manufacturing environment is a plus
- Prior Co-op/internship experience is a plus
- Ability to lift 50 pounds
- Ability to wear proper personal protective equipment (earplugs, safety glasses, respirator)