



JOB OPENING Engineering Intern

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Contribute to the advancement of technological capabilities as directed by management to improve products and Caldera's ability to assist customers in meeting their operational goals. Assist in design and creating engineering tools to promote advancements in knowledge and understanding of both internal and customer processes. Prepare detailed working diagrams of mechanical devices, including dimensions, fastening methods, and other engineering information. Create three-dimensional (3-D) part models and assemblies for two-dimensional (2-D) manufacturing and customer drawings. Research technical aspects of current and future designs.

Job Duties

- Assist in evaluation of product failure and design improvement
- Conduct research that tests and analyzes the feasibility, design, operation, and performance of equipment, components, and systems
- Study engineering principles and perform tests to better understand and quantify the thermodynamics, physics, and other principles pertinent to Caldera products
- Evaluate mechanical products, equipment, systems, and processes to meet customer and industry requirements, applying knowledge of engineering principles
- Read and interpret technical drawings and schematics
- Review, document, and ensure Caldera product is compliant to customer contracts, terms and conditions, and industry standards
- Create 3-D part models and 2-D engineering drawings by developing detailed design drawings and specifications for mechanical equipment and controls, using computer-assisted drafting (CAD) equipment
- Generate and update bills of material with specific dimensional specifications
- Check 2-D prints for accuracy and verify they accurately represent desired manufactured parts
- Modify and revise designs to correct operating deficiencies or to reduce production issues

Desired Skills and Abilities

- Enrolled as an engineering student or equivalent experience/education in related field
- In-depth understanding of engineering drawings and manufacturing processes
- Coursework in fluid dynamics, thermodynamics, and other similar engineering disciplines
- Experience with 3-D CAD software with a preference for SolidWorks
- Experience in computer software programming and other engineering software for modeling and tool development
- Excellent interpersonal skills; good listener, respectful and caring, strong verbal and written communication skills
- Strong orientation to detail
- Self-motivated, well organized, team player
- Proficient in Microsoft Office applications

DESCRIPTION OF CALDERA ENGINEERING

Caldera Engineering supplies process equipment and services to a global customer base in the pressure hydrometallurgy industry. Our engineers utilize technical disciplines to solve customer problems related to highly corrosive and erosive process flows with high pressure drops, high velocity, and multiple phases. We endeavor to take a scientific approach to improving the service performance of our equipment. Our work is primarily in the mining industry, but we also have activities in other industries.