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JOB OPENING Innovation Engineer

Contact: Keri Steele
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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. Design and create engineering tools to promote advancements in knowledge and understanding within the industries Caldera supports. Perform research into phenomena associated with Caldera equipment and conduct engineering analysis of information and data collected from customer sites. Research and model technical aspects of current and future equipment designs. Support customers through innovative engineering design, fostering relations, and fulfilling customer needs.

Job Duties

- Conduct research using sound engineering principles to analyze the design and performance of flow control equipment and systems
- Employ fluid dynamics, thermodynamics, physics, and other engineering disciplines to create models that predict and provide insight into the performance of Caldera equipment
- Develop tools implementing proven technological advancements for use by other engineers at Caldera
- Perform detailed analysis of engineered products to ensure conformance with established standards and codes and performance specifications
- Assist in root cause analysis of product failure
- Travel to customer sites to support Caldera-supplied equipment and customer requests

Desired Skills and Abilities

- Four-year degree in engineering or equivalent experience/education in related field
- Computational modeling of compressible, multiphase flows (OpenFOAM, Fluent, StarCCM+)
- Experience with scientific computing including HPC management and Linux CLI
- Strong programming skills—OOP a plus (Python, MATLAB, C++, Bash)
- Familiarity with optimization techniques and machine learning (Dakota, scikit-learn)
- Excellent interpersonal skills; good listener, respectful and caring, strong verbal and written communication skills
- Self-motivated, responsible, detail oriented, and well organized
- Basic understanding of engineering drawings and manufacturing processes
- Strong project management skills
- Team player
- Proficient in Microsoft Office applications and SolidWorks or similar

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.

Caldera strives to create a workplace where employees are treated with courtesy and respect and are appreciated for their good work. The company welcomes each person's voice in matters of company operation and direction. We are committed to maintaining a culture of integrity and caring that enables employees to develop, innovate, and share talents.