Job Description – Thermal Systems Test Engineer

At GRC, we make the datacenter more efficient and enable a significant increase in power density per rack. GRC is hiring a Thermal Systems Test Engineer to help develop and support our liquid immersion cooling systems for data center and Edge IT systems. This position will report to the Chief Technology Officer. As a Systems Test Engineer you will be responsible for two general activities: i. computational modeling of system thermal performance with CFD tools, and ii. documentation of test procedures, instrumentation for test, execution, analysis, and summarization of tests. The focus of testing will be to evaluate thermal and process control performance against required specifications. The candidate will be responsible for the daily operation of the working lab.
The ideal candidate should have a bachelor's or master's degree in mechanical engineering or thermal engineering with a background in product development and electromechanical systems, and strong written and oral communication skills. Additionally, candidates should have experience with 3D CAD (preferably SolidWorks), Computational Fluid Dynamics, Design of Experiments, and instrumentation.

Key Responsibilities:

- Provide written test procedures for experiments and testing related to thermal performance and chemical interaction of immersion systems for information technology systems
- Setup test/experiment with necessary instrumentation
- Evaluate new fluids for human and environmental health and safety
- Analyze test data to provide clear and concise understanding of key performance metrics
- Make recommendations for improving thermal performance
- Perform detailed CFD analyses of various fluids with geometry optimization and fluid properties adjustments for optimal heat transfer and fluid distribution

Job Requirements:

- Bachelor's degree in Mechanical or Thermal Engineering
- Minimum of 2 years of related experience
- Strong understanding of electromechanical systems
- Familiar with fluid flow in hydraulic systems
- Experience with heat transfer calculations
- Experience with Computational Fluid Dynamics
- Experience with designing experiments, data acquisition, measurement of thermophysical properties, and comprehensive data analysis to present clear outcomes of experiments and tests
- Familiar with Python
- Effective written and oral communication skills; the ability to interact professionally with diverse groups
- Team-oriented collaborative working style

- Ability to manage multiple projects and deadlines with attention to detail and follow up with minimal supervision
- Highly organized; self-starter
- Able to adapt to changing project priorities in a fast-paced startup environment