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Senior Mechanical and Materials Engineer

About Karagozian and Case, Inc.

Karagozian and Case, Inc. (K&C) is an internationally recognized multidisciplinary science and engineering consulting firm founded in 1945 with a focus on creating custom engineered solutions for extreme environments. K&C's mission is to engineer specialized solutions and products for the defense, space, energy, security, construction, and manufacturing industries. K&C's rapidly growing practice areas include: 1) applied research and testing, 2) modeling, simulation, and analysis, 3) product and software development, 4) protective design engineering, and 5) threat vulnerability assessments.

Career Opportunity

K&C is seeking a highly talented, motivated, and hands-on Senior Engineer that can work, think, and innovate independently in a fast-paced work environment with challenging time constraints. The individual must have a strong technical interest in material characterization and have demonstrated experience in the laboratory environment. You will work with a great team of talented scientist and engineers on diverse multi-disciplinary R&D projects that result in cutting-edge technologies and solutions.

Candidate Requirements

- MS or PhD in Mechanical Engineering, Structural Engineering, or Related Field
- U.S. Citizen or U.S. Permanent Resident
- 2-3+ years of experience in the laboratory
- Experience with high strain-rate testing (e.g., hydraulic actuators, split-Hopkinson bar, micro-indentation)
- Experience with composites and metamaterial design.
- Experience and strong interest in prototype fabrication.
- Experience designing parts/components for machining.
- Experience selecting, installing, and obtaining data with various diagnostics (e.g., strain gages, piezo-electric sensors, loads cells, optics, high-speed video, digital image correlation, ultra-sonic testing, SEM).
- Strong fundamental comprehension of solid mechanics and mechanics of various materials (e.g., metals, composites, metamaterials, ceramics, other quasi-brittle materials).
- Knowledgeable regarding acoustic wave and/or shock propagation through a variety of materials.
- Experience modeling tests using a finite element code is a plus.

Job Duties

- Lead company's material characterization, impact, and fragmentation testing projects
- Lead prototyping efforts involving advanced composites and ceramics systems, novel mechanical and structural designs, and metamaterials.
- Plan and interpret data collected from experiments
- Enhance and update in-house test capabilities, test procedures, and safety plans
- Independently manage projects and prepare contract deliverables (progress reports, final reports, briefings, etc.)
- Support proposals and bids for contracts
- Demonstrated ability to work collaboratively with other colleagues and team members
- Collaborate with academia and publish in technical journals
- Participate in technical conferences

Karagozian & Case, Inc.

700 N. Brand Boulevard, Suite 700, Glendale, CA 91203 | 818-240-1919 | www.kcse.com