



## MECHANICAL ENGINEER – Failure Analysis & Accident Reconstruction JOB DESCRIPTION

### BACKGROUND

ARCCA's Mechanical Engineer works with clients in the insurance and legal industries to investigate and analyze a variety of mechanical system failures. Projects involve industrial machinery, consumer products, HVAC equipment, workplace safety, construction equipment, as well as general safety issues. This role will have an Accident Reconstruction component as well which includes investigating and reconstructing motor and commercial vehicle collisions.

### ROLES & RESPONSIBILITIES (Failure Analysis)

- Conduct investigations to gather and analyze equipment failures.
- Prepare and deliver technical/educational presentations to existing and potential client groups and technical conferences.
- Enhance professional/technical knowledge and credibility through continuing education programs, review of technical publications and the preparation of technical papers.
- Prepare technical reports.
- Provide expert testimony as required.

### ROLES & RESPONSIBILITIES (Accident Reconstruction)

- Perform vehicle, site, and evidence inspections utilizing the latest in 3D scanning technology and software, conduct testing, and collect corresponding data.
- Prepare and deliver technical/educational presentations to existing and potential client groups and technical conferences.
- Enhance professional/technical knowledge and credibility through continuing education programs, review of technical publications, and the preparation of technical papers.
- Prepare technical reports.
- Provide expert testimony as required.

### REQUIREMENTS

- Masters in Mechanical Engineering or related field; Bachelors considered.
- PE licensure in one or more states, preferred.
- The expert candidate will possess the willingness to work in the litigation setting and will be given the opportunity to evaluate cases and claims, design and build test fixtures and to evaluate and test hardware.
- Prior testifying experience is preferred but not required; however, the expert candidate must possess solid written and verbal communication skills.
- A background in safety equipment is helpful with knowledge in any of the following areas including but not limited to machine guarding, operation of equipment, consumer products, workplace safety, ladders, scaffolding, machinery, construction equipment and general safety issues.

### HOW TO APPLY

Please submit your resume and cover letter to Christie Voelker, Human Resources Director, at [jobs@arcca.com](mailto:jobs@arcca.com).

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