

CAREER OPPORTUNITY

SENIOR PROJECT ENGINEER – BIOMECHANICAL ENGINEERING

Compensation & Benefits

- Industry competitive salary
 - Medical, dental, and vision insurance
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Position Overview

Design Research Engineering LLC (DRE) is seeking a **Senior Project Engineer in Biomechanical Engineering** to join our Tomball, Texas team. This is a **full-time, permanent position** with immediate availability. The ideal candidate is a highly driven professional with demonstrated experience and strong technical expertise in biomechanical investigations, injury analyses that apply scientific analysis to real-world engineering challenges.

Position Details & Requirements

- Master's or Ph.D. in Biomechanics, Bioengineering, or Mechanical Engineering (required)
 - 5+ years biomechanical engineering experience in biomechanical investigations and injury analyses (required)
 - Full-time, permanent position based in Tomball, TX
 - Hybrid work (on-site & remote). More on-site training required during first year of employment
 - Ability and willingness to travel frequently, primarily within the United States
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Key Responsibilities

- Evaluate human motion, injury mechanisms, and injury potential during different events and analyze if and how these injuries may have been prevented or mitigated
 - Critical reviews of technical and non-technical materials, including witness statements and testimony, investigative file materials, photographs, and medical records
 - Extract and synthesize key findings from materials reviewed and prepare summaries for internal and external (client) presentations
 - Research and analyze biomechanical literature, scientific literature, and test data as it relates to human kinematics, injury mechanisms, and injury potential
 - Plan and conduct vehicle and crash simulator (HYGE sled) testing using human participants and/or anthropomorphic test devices (crash test dummies)
 - Analyze and interpret test data & high-speed video generated during vehicle and crash simulator testing
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Capabilities & Strengths

- Demonstrated leader who thrives in a small-team environment
 - Manage large-scale projects with minimal supervision: leading colleagues and interacting with clients in a cost-efficient manner.
 - Demonstrated ability to execute complex technical analyses with limited oversight
 - Exceptional project and time management skills with excellent written and verbal communications skills
 - Effectively communicate complex, biomechanical analyses to both technical and non-technical audiences in written and presentation (PowerPoint) format
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About Us

Design Research Engineering LLC (DRE) is a trusted engineering consulting firm with offices in Novi, Michigan, and Tomball, Texas. Founded in 1996, DRE has built a strong reputation for delivering high-quality engineering analysis and expert insight across multiple industries. Our team specializes in investigating and evaluating automotive, marine, and consumer product incidents. Our work includes accident reconstruction, mechanical and structural failure analysis, and litigation support on complex, technically demanding cases.

At DRE, we combine deep technical expertise with a commitment to precision, integrity, and exceptional client service. We offer employees the opportunity to work on challenging, meaningful projects in a collaborative environment, along with competitive compensation and comprehensive benefits.

 Learn more at www.dreng.com

How to Apply

Please submit your current resume to: **Amy Bumbaugh**  bumbaugh@dreng.com

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