



## **Job Title: PhD Consultant with Engineering Degree**

**Position Summary:** The Consultant role has two components, the primary focus is to drive and direct research and publications related to BRC's industry. This position is responsible for providing research and publication management and process leadership as well as executing higher complexity projects in support of company-wide primary research initiatives. Secondly this position is responsible for forensically determining a relationship, if any, between an accident event and an injury. If such a relationship exists, the PhD Consultant is responsible for defining, in biomechanical terms, the nature and character of the relationship and how the accident event caused the injury.

**Essential Duties and Responsibilities** include the following:

### Primary

1. Define, plan, organize, monitor and oversee research and publication projects in accordance with business requirements, objectives and priorities.
2. Manage the research and publication lifecycle and prioritization process for studies as assigned.
3. Organize the work and determine the most effective approach to completing the work, including appropriate resource needs and program budgets.
4. Serve as key advisor on research methodologies to others on staff who wish to conduct research and/or publications.
5. Lead and oversee the project and research function, supervise the research staff and work closely with Consultants and Engineers.

### Secondary

1. Review and analyze technical reports and depositions.
2. Identify, select, and review relevant literature bearing on a problem or issue; prepare technical summaries.
3. Perform accident site investigations and inspect vehicles involved in accidents.
4. Participate in client meetings.
5. Provide oral testimony (depositions or trial) as to opinions represented in oral or written reports.
6. Provide quality and responsive client service.

7. Must be able to travel up to 30% of the time.

**Qualifications:** To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skills, and/or abilities required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

**Education/Experience/Competencies:**

1. Ph.D. in Biomedical Engineering, Mechanical Engineering or a related engineering field. Training or experience in impact biomechanics is strongly preferred.
2. Prefer established primary research experience, including program management, vendor management, contract negotiation and process management leadership experience with demonstrated success building organizational excellence through program management, process design, resource management, risk mitigation and capacity planning in a fast-paced, ever-changing environment. This role requires both quantitative and qualitative skills, and the candidate must have moderating and interviewing experience.
3. Lead author of a peer-reviewed publication in a scientific journal, preferably in the field of accident reconstruction, vehicle design or biomechanics.
4. Served as a team leader or project manager overseeing all aspects of a project from commencement to completion.
5. Automotive experience preferred but not essential
6. Vendor-side experience highly preferred
7. Strong analytical skills:
  - a. Able to spot trends in data, with ability to drill down to the details
  - b. Big picture context – broader, bigger brand implications
  - c. Distill data/information into a concise story, with the ability to creatively tell the story through visuals.
8. Ability to effectively communicate and present complex information, ideas, and opinions verbally and in writing to different levels of audiences that include colleagues, co-professionals, attorneys, and other professional and non-professional groups and individuals.
9. Exhibit critical listening and interpersonal skills required to successfully engage and resolve multi-layered accident and product liability-related cases with the goal of surpassing client expectations at all phases of the project.
10. At least one to three years of professional experience conducting technical analyses concerning the causation of physical injuries resulting from incidents involving motor vehicles, industrial equipment, and/or consumer products is preferred.
11. Experience working with or for an automotive manufacturer or supplier is preferred.

12. GPA in completed coursework 3.5. Employer may substitute experience for GPA requirements.

**Reasoning Ability:**

1. Ability to process, interpret, analyze and apply data in support of expert opinions.
2. Ability to understand and to relate complex concepts involved with testing.
3. Must possess excellent problem solving skills.

**Computer Skills:**

1. **Required:** Proficient knowledge of Microsoft Excel, Word, PowerPoint and Outlook. Programming knowledge of Matlab®.
2. **Preferred:** LabVIEW® numerical analysis and data acquisition software, SolidWorks® solid modeling software. Familiarization with accident reconstruction and animation software: EDCRASH and ARAS360. Proficient with DTS® and National Instruments data acquisition software and hardware.

**Required Licenses**

Valid and insurable driver's license.

**Preferred Certifications and Licenses:**

1. Professional Engineering License
2. ACTAR

**Supervisory Responsibilities:** None

**Work Environment:** The work environment characteristics described here are representative of those an employee encounters while performing essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. The work accommodations for this position include an office, in which the noise level is typically moderate, and the RTC testing bay, in which noise levels can be higher, commensurate with the use of power tools, saws, grinders and pneumatic tools.

**Physical Demands:** The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. While performing the duties of this job, the employee is regularly required to sit and use hands and fingers. The employee

is frequently required to talk or hear. The employee is occasionally required to stand, walk, reach with hands and arms and stoop, kneel, crouch or crawl. The employee must occasionally lift and/or move up to 25 pounds. Specific vision abilities required by this job include close vision and the ability to distinguish colors. Depending on the type of testing being performed, the employee may also be exposed to periods of heat, cold, gasses such as automotive exhaust, and cleaning chemicals.

The above job description is not intended to be an all-inclusive list of duties and standards of the position. Incumbent will follow any other instructions and perform any other related duties as assigned by their supervisor.

**Compensation:** Competitive pay and benefits.

**Application Process:** Send CV to [jsanchez@brconline.com](mailto:jsanchez@brconline.com)

*"BRC is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to sex, gender identity, sexual orientation, race, color, religion, national origin, disability, protected veteran status, age, or any other characteristic protected by law."*