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Updated May 18, 2016

Biomechanics Research Associate

Who We Are:

Brooks is a team of passionate people united by a desire to do meaningful work, lead healthy lives and make a difference. We share a focused mission: to inspire everyone to run and be active. That's it. No distractions—it's all about the run. Through science, creativity, service, authenticity and connection, we obsess over delivering the best running gear on the planet. We do it our way, with our unique spirit, with a goal of being more relevant to runners than any other brand, day after day and mile after mile. We are determined to innovate, challenging ourselves to lead thought at every turn. Inside these walls and on the roads, tracks and trails, we live and breathe Run Happy, celebrating the positive impact running has on our lives and others. We inject it into all we do because it makes everything better, smarter, more fun and more memorable. Our company culture defines us, bonds us together and creates the conditions for success. It is lived daily as a behavioral expression of our collective set of brand values: Serve People, Lead Thought, Play as a Team, Compete Every Day, Demonstrate Integrity, Have Fun and Be Active. If you're on our team, it means you're part of creating something extraordinary. You're part of Brooks.

Your Job:

As our Biomechanics Research Associate, you'll carry out the research and development of our footwear and apparel products, executing research projects to develop the best in class product in regards to performance, fit, comfort and injury prevention. You will become a resident expert of all the biomechanical and mechanical testing done in our state of the art Human Performance Lab, and will participate in development of new tools, methods and procedures that will streamline data analysis. You will participate in projects that will require collaborative work with the innovation, design, development, and merchandising teams to bring to life relevant consumer insights and integrate them into our product line, to provide running products that are desired by our customers.

Your Responsibilities:

- Proficiency in lower extremity anatomy, physiology and biomechanics of running/walking
- Understand basic running shoe design features and components preferred
- Be responsible for biomechanical lab testing (3D motion analysis, high speed video, plantar pressure systems, EMG) including subject preparation, data collection, data analysis and development of reports using MS Office Suite software and Tableau
- Perform mechanical lab testing of polymeric materials, components, and product (shoes and apparel).
- Update and expand database of all current Brooks biomechanics test methods and benchmark against industry standards
- Improve existing test methods primarily via automation of data processing
- Responsible for reporting validation test results to provide guidance and direction to the design, development, innovation and merchandising teams. This involves possessing the understanding and knowledge to correlate wear test, mechanical and biomechanical test results into a comprehensive understanding of the performance of our running products in relation to comfort, fit, efficiency, and injury prevention.
- Assist in the development of new test procedures including multi-segment foot models, full body modeling and other biomechanics models necessary to expand our testing abilities
- Contribute to learning opportunities for the footwear team through periodic presentations of new research and developments in performance testing and biomechanics of footwear design
- Contribute to visibility of lab expertise and developments through periodic tours and demonstrations
- Participate in biomechanical projects to research new areas in footwear and apparel design and improve biomechanical performance of our products.

Qualifications:

- M.Sc. in Biomechanics, or related field including Engineering, Kinesiology, Physiology, Exercise Science, Human Factors, or

- Ergonomics.
- 2-3 years' experience in lieu of a graduate degree.
- Poses a thorough understanding of anatomy, physiology, biomechanics of running, biomechanical principles and experimental design and statistical methods.
- Demonstrate an understanding of performance and injury mechanisms for running.
- Experience in use of biomechanics systems for analyzing running/walking gait (3D motion capture systems (Motion Analysis, Vicon, Qualysis), Visual 3D, plantar pressure systems (Novel, Tekscan))
- Experience in writing programs (matlab, visual 3D, Labview, C/C++) is a plus
- Exposure to industrial research experience is a plus.
- Knowledge of footwear and product creation processes is a plus
- Ability to work on multiple projects simultaneously
- Computer proficiency with office software; MS Word, Excel, Outlook, PowerPoint and Tableau.
- Excellent verbal and written communication skills, demonstrating effective listening through concise, clear verbal and written communication.
- Excellent interpersonal skills that inspire and build trust resulting in effective working relationships across the company.
- Demonstration of innovation and initiative – always looking at improving our products and processes while also displaying a willingness to dive into the details and help out wherever necessary.
- Passionate participation in Brooks' sports activities a plus, overridden by the ability to understand and empathize with the runner in order to develop loyal, engaging relationships with our customers and the Brooks community.
- Embraces and lives the Brooks values!

Reports to: Senior Biomechanical Engineer**Department: Footwear Research and Development - 32****Position Class: Exempt, Salaried****Position Location: Headquarters - Seattle, WA**

Brooks Sports, Inc. is an equal opportunity employer and our policy is to maintain employment practices that conform to the intent and letter of the laws regarding equal employment opportunity. Brooks is committed to affording equal employment opportunity to all individuals without regard to race, sex, color, religion, national origin, age, disability, veteran or military status, marital status, sexual preference, genetic information or any other basis prohibited by federal, state, or local laws or regulations. This commitment applies to all phases of the recruitment process including hiring, selection, promotions, transfers, demotions, compensation, benefits, or training. Brooks will endeavor to make reasonable accommodation for qualified individuals with known disabilities, unless doing so would result in an undue business hardship or a direct threat to the health or safety of any individual.

For additional information or to apply, please visit the [Brooks website \(http://jobs.jobvite.com/brooks-sports-inc/job/okBR2fwy\)](http://jobs.jobvite.com/brooks-sports-inc/job/okBR2fwy).