Bio-Medical Engineer

Bio-Medical Engineer – Injection and Preclinical Science (Portal Instruments, Inc.; Cambridge, MA): This individual will be leading preclinical activities for Portal and establishing Portal as an injection science company. Responsibilities include: Act as leader of the preclinical science team, providing key data and scientific evidence to demonstrate the proof-of-concept for the Porta novel drug delivery system; Lead a group of junior scientists and biomedical engineers to developing the Portal groundbreaking preclinical model for injection depth, developing the scientific knowledge, data, and publication foundation for the unique Portal injection mechanism of action, and argue the scientific merits of Portal's technology in front of the Food and Drug Administration as needed; Lead the team in the development, interpretation and execution of complex, ground-breaking in vivo injection science studies, working closely with outside CRO as needed; Contribute to hands-on ex vivo laboratory work as needed, which may include designing and conducting isolated tissue experiments using custom-built devices (some of which you or the team you lead may design); Develop components and systems for testing and research purposes, working alongside the software, mechanical, and electrical teams; Design, build, and debug experimental testing instrumentation; Design, build, and debug test procedure for analysis and characterization of electro- mechanical components and sub-systems; Evaluate system performance by executing and documenting experiment/plans; Prepare and execute test protocols, perform data analysis and communicate results via technical reports and presentations; Support product design change control by facilitating engineering change orders; Support design verification and validation activities, as well as data collection and documentation for submission to regulatory agencies; Provide technical assistance to clinical studies; Perform all duties in compliance with Portal's quality system regulations and GLP standards; Communicate technical issues and investigations clearly and promptly to supervisor; Communicate effectively with external partners demonstrating technical expertise in animal tissue/tissue modeling; and Present scientific data at either external meetings, publications, or on Portal's behalf in expert advisory boards on preclinical models and injection science. **Hybrid telecommuting permitted pursuant to company policy. May require 5% domestic and international travel to CROs, Scientific conferences, and advisory boards.**

Minimum requirements: Master's degree in biomedical engineering, or its equivalent, in a related field of study; plus 1 year of experience in biomedical engineering or related experience.

Must have: Demonstrated ability to work independently in a start-up environment; Demonstrated strong knowledge with skin models and/or simulating human skin properties; Demonstrated strong knowledge in anatomy; Demonstrated strong knowledge of injection science literature; Demonstrated knowledge of data analysis tools, such as MATLAB; Demonstrated knowledge of imaging techniques; Demonstrated knowledge in Sprint/Agile Methodology; Demonstrated knowledge in project management; Demonstrated knowledge in medical regulatory affairs; Demonstrated ability to work with post-mortem tissue in a lab setting; Demonstrated ability to multitask and juggle competing priorities; Demonstrated exceptional communication skills, both written and oral; Demonstrated strong interest in multidisciplinary studies and desire for hands-on experience; Ability to guide and mentor junior scientists. (Unless otherwise indicated, employer is seeking the ability in the skills listed above with no specific number of years of experience required. All experience can be gained concurrently.)

To apply, send resume to careers@portalinstruments.com. Reference Job Code **00057135** in Subject line. An EOE.

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