



Bio-Medical Engineer

Reports to: Principal Engineering

Overview

Portal Instruments seeks a curious, detail-oriented biomedical/bioengineer to join the preclinical development engineering team. This individual will be the key contributor to preclinical activities for novel drug delivery devices.

Role and Responsibilities

The person who accepts this position may be called upon to participate in the following areas. The right person for this position need not have had direct experience in each area but must have a willingness to learn.

- As part of the preclinical engineering team, provide support to the development of Portal's novel drug delivery system based on advanced technologies.
- Participate in complex *in vivo* studies, working closely with outside CROs.
- Contribute to hands-on *ex vivo* laboratory work as needed, which may include designing and conducting isolated tissue experiments using custom-built devices.
- 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.



Required Skills and Experience

- BS or MS in bio-medical engineering discipline
- Ability to work independently in a start-up environment.
- Biologics and drug delivery experience is a plus.
- Proficiency in Solidworks is a plus.
- Experience in data analysis tools, such as R/RStudio, MATLAB and Minitab, is preferred.
- Medical device experience, more preferred.
- Experience with electromechanical system testing and documentation is a plus.
- Ability to multitask and juggle competing priorities.
- Exceptional communication skills, both written and oral.
- Strong interest in multidisciplinary studies and desire for hands-on experience.
- Portal strives to build a team with diverse skill sets. Our product is a highly integrated electromechanical system, and many of us work across multiple disciplines. Varied backgrounds and experiences are a strength.

About Portal Instruments

Portal is transforming medicine by allowing chronic patients to self-inject their biological drugs with a needle-free device. This innovative drug delivery system replaces auto-injectors and is overwhelmingly patient preferred. Issued from MIT Research and easily connected to the cloud, the Portal device allows biopharmaceutical companies to augment their biological therapies and differentiate them from competitors. The device captures injection data in real time and transmit those via the cloud to all stakeholders for optimal care. Portal's business model is to partner with biopharmaceutical companies and co-develop drug/device combination products. The company has partnerships with Takeda Pharmaceuticals, LEO Pharma, Sanofi SA and 3M. It is currently at the pre-launch stage with pilot lines producing products for clinical evaluation. Come join us on this exciting journey of making chronic patient care and comfort a priority.



Working at Portal Instruments

- Portal Instruments is looking for unique individuals who want to make a difference in the lives of patients and how medicines are delivered today
- Portal Instruments offers employees the opportunity to work in a fast-paced start-up that values innovation, creativity, accountability, teamwork, and openness while providing excellent leadership and development opportunities
- Portal Instruments is committed to challenging implicit bias and creating an equitable work environment. We are proud to be an equal opportunity employer. All qualified candidates will receive consideration without regard to race, ethnicity or national origin, sexual orientation, gender identity or expression, genetics, military service, age, family status, or disability.
- Portal offers a competitive salary, a comprehensive benefits package, including stock options, a 401(k) retirement plan, a health and dental plan and a chance to make a difference in the lives of thousands of patients.

To Apply: Please submit a resume and cover letter to: careers@portalinstruments.com. You will be contacted if your background meets Portal's needs.