

Embedded Software Engineer: Controls

Reports to: Director, Software Engineering

Role and Responsibilities:

The Embedded Software Engineer will contribute to software and real-time control system development for Portal Instruments needle free software controlled drug delivery system. You will handle multiple activities across the product lifecycle and collaborate closely with the entire engineering team. Your primary responsibilities will focus on developing, implementing, and verifying the performance of the embedded feedback control scheme for the Portal injector. You will also contribute to general embedded software development and hardware/software system integration.

- Design and develop embedded software for Portal's drug delivery device from concept through commercialization
- Develop and execute test plans to characterize and model system performance.
- Analyze, develop and improve upon control algorithms for Portal's drug delivery device.
- Evaluate system performance by designing, executing, and documenting verification and validation plans
- Support risk management process using FMEA and other risk management techniques

Qualifications and Experience:

- In-depth knowledge of feedback control, system identification, and modeling.
- Strong analytical and experimental skills.
- Experience writing clear, high-quality embedded software in C++
- Ability to clearly communicate design decisions and tradeoffs verbally and in writing.
- Experience working in an environment with continuous integration, comprehensive automated tests, and a focus on code clarity and maintainability is a plus



- BS degree or higher in Electrical/Mechanical/Computer/Systems engineering, Robotics, Computer Science, Physics, or equivalent discipline
- Ability to work independently in a startup environment

About Portal Instruments

Portal Instruments is a Series B funded medical device company focused on advanced drug delivery and backed by powerful strategic partners and venture investors. We are developing and commercializing a highly innovative needle-free drug delivery platform technology to transform the administration of medicines and improve the patient experience for chronic diseases. Portal's needle-free delivery technology enables the injection of high viscosity biologic drugs without the pain, anxiety and troublesome handling of needles. Our needle-free breakthrough technology is precise, reliable and comfortable to use. 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.