

## **IMMEDIATE JOB OPENING: SOFTWARE/CONTROL ENGINEER**

Researchers at Case Western Reserve University and the Louis Stokes Cleveland Department of Veterans Affairs Medical Center have an immediate opening for a full time **Biomedical Software/Control Engineer** to support new and ongoing medical device development requiring embedded control systems, mobile computing platforms, and applications of wireless communications. The engineer will be an integral part of several multidisciplinary development teams working on projects encompassing limb, joint or organ prosthetics, wearable physiological monitoring, and other implanted or external diagnostic, restorative or therapeutic interventions.

Responsibilities include:

- **Developing, documenting and verifying embedded control, data collection/processing and operating systems for emerging medical technologies (50%).** This includes creating and maintaining the computing and communication infrastructure for restorative technologies ranging from implantable sensors to portable controllers for wearable electro-mechanical robotic assist devices.
- **Constructing, validating and testing mobile hardware/software applications and systems to integrate information from a variety of distributed sensors in new medical devices (30%).** This includes the aspects of hardware, firmware and software design required to interface with biological and mechanical subsystems and produce working prototypes suitable for clinical or pre-clinical testing
- **Creating and implementing intuitive user and clinician interfaces and redundant safety systems for robust operation (20%).** This includes specifying, creating, documenting, distributing and modifying high and low level software for interacting with the new or developing devices.

### **Qualifications**

- Bachelor Degree (Master's Degree preferred) in Biomedical, Electrical, Control, or Computer Engineering.
- At least one year of R&D or commercial product design and testing experience
- Knowledge of microsystem design, system integration, programming, and documentation including signal processing, data acquisition, machine control and wireless or web-based communications.
- Proficiency in quality system documentation and operating systems such as Android, iOS, Embedded Linux, and programming languages such as C/C+, Java, Objective-C, Ruby, Scala, CSS3, HTML5, or Javascript

Please send resumes to:

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