CYTRELLIS
BIOSYSTEMS

R&D SYSTEMS ENGINEER

ABOUT US:

Cytrellis Biosystems, Inc. is a clinical stage medical technology company developing a new, proprietary class of aesthetic devices. Our devices are designed to remove sagging skin associated with aging without surgery or scarring, enabling aesthetic practitioners an unprecedented ability to improve age related changes in skin and restore youthful beauty. Cytrellis is dedicated to working with leading dermatologists, plastic surgeons and partners to develop unique product solutions which emphasize safety, clinical results and improved quality of life. We are a Boston-based venture capital backed company.

Cytrellis has a broad IP portfolio and has demonstrated proof-of concept in clinical studies. The company has raised a Series A financing led by ARCH Venture Partners. Merz Pharma has also made a strategic investment in the company.

SUMMARY:

The R&D Systems Engineer will have oversight of the software development in support of new and existing medical products. This position is responsible for the system software architecture and integration of software / firmware with electronic hardware and motion control subsystems. Must have a demonstrated working knowledge of software development processes and tools as well as experience integrating software with electromechanical systems. This position has project management responsibilities for interfacing with external development resources. Strong communication and leadership skills are required.

ESSENTIAL FUNCTIONS:

The candidate will support new and existing product development. Primary responsibilities include:

- Generate system requirements for new products by working with engineering team members, external development resources and Product Marketing.
- Generate system requirements documents and system test protocols.
- Owns Software Architecture development from interface to motion control electronics and firmware to GUI.
- Develop and execute System Integration Plans. Drive issues to resolution.
- Drive development of Software Requirements Specification.
- Oversee Software Verification and Validation scheme.
- Review existing design documents including product requirements, software and firmware requirements, electronic and electromechanical requirements and test protocols.
- Manage ongoing development activities with external development resources.
- Manage design reviews with team members and external development resources.
- Provide scope, status, and scheduling updates to management.

Experience & Training:

Education:

- Bachelor's Degree in Electrical Engineering, Computer Science, Mechanical Engineering or related field. Master's Degree in Engineering or related discipline preferred.

Experience:

- Five years of product development experience in the medical device industry.

Specific Skills:

- Working knowledge of IEC 62304 Medical device software – Software lifecycle processes.
- Demonstrated ability to translate requirements into subsystem components and software algorithms and modules.
- Experience integrating software, electronic hardware and electromechanical subsystems.
- Design of embedded systems using 8-bit and 16-bit microcontrollers and custom electronics.
- C and assembly language development for microprocessors.
- Experience interfacing software and hardware to industry-standard Single Board Computers (SBC).
- Motion control systems, specifically closed-loop designs for precision motor control preferred.
- Standard communications buses such as CANBus, SPI, and USB.
- Experience interfacing with and managing external development resources.
- Excellent writing and presentation skills.