



JOB DESCRIPTION

SOFTWARE & SYSTEMS ENGINEER

Position

Reporting functionally to the Head of Software and Systems Engineering, the Software & Systems Engineer serves as a member of the Cell Microsystems team with responsibility for achieving milestones in the key areas of software development, validation, and systems integration for all automated platforms. The position includes collaboration with other team members in the areas of product design, development, installation, quality assurance and quality control, troubleshooting, and integration of software for automated platforms.

Responsibilities

Design and Development of Software Products

- Contribute to the design, research, and development of both existing and new software products including integrated computational and imaging hardware
- Programming of graphical user interfaces using WPF and WinForms
- Development and testing of image processing algorithms using OpenCV
- Programming machine control and systems integration including image capture using vendor SDKs
- Contribute to the implementation and validation testing of software products installed on automated platforms
- Draft and optimize protocols for software validation
- Assist in quality assurance and quality control of software products
- Collaborate with other team members in the preparation and implementation of grants for research and development funding opportunities

Support for Customer and Partner Relations

- Installation of software products on automated platforms and training of customers
- Direct communication with customers regarding performance and troubleshooting of software products and related components
- Assist in the creation of scientific, technical, and marketing materials to distribute to customers

Candidate Profile

- Minimum B.S. in computer science or computer engineering
- Minimum 5 years of programming experience in .Net environment using C#, C/C++, VB with emphasis on desktop applications using WPF or WinForms required
- Image processing experience with OpenCV, Matlab, and/or other data analysis software package required
- Proficiency with relational database design and implementation using SQLite or equivalent required
- Experience in bioinformatics for genomics a plus
- Demonstrated oral communication and technical writing skills required
- Proficient with Microsoft Office (Word, Excel, PowerPoint, Outlook)
- Willingness to work in entrepreneurial, small-company, team environment
- Self-starter and independent worker capable of working towards common goals in a team
- Some travel required
- Must be able to work in the U.S.

Interested candidates should send their resume and a brief statement of interest to info@cellmicrosystems.com

Cell Microsystems is an early growth stage company located in Research Triangle Park, NC that develops, manufactures, and markets innovative products for single cell biology research.