Senior Software Engineer

About MaxCyte:

MaxCyte, the clinical-stage global cell-based therapies and life sciences company, uses its proprietary next-generation cell and gene therapies to revolutionize medical treatments and ultimately save lives. The Company's premier cell engineering enabling technology is currently being deployed by leading drug developers worldwide, including all of the top ten global biopharmaceutical companies. MaxCyte licenses have been granted to more than 120 cell therapy programs, with more than 90 licensed for clinical use, and the Company has now entered into ten clinical/commercial license partnerships with leading cell therapy and gene editing developers. MaxCyte was founded in 1998, is listed on the London Stock Exchange (AIM:MXCT, MXCL) and is headquartered in Gaithersburg, Maryland, US. For more information, visit www.maxcyte.com

Job Summary:

The Senior Software Engineer leads software development activities for MaxCyte. This job role will include all software project/program activities including software architectural design, coding, simulating/emulating/testing, verification/validation and documentation. The Senior Software Engineer will be responsible for software engineering activities from concept to commercialization.

Job Responsibilities:

- Responsible for all aspects of software development

- Design and develop instrument embedded control software

- Design and implement software based on current best practices

- Write code that is easy to read, maintainable and extendable using best practices

- Create documentation adhering to quality procedures, regulations, standards and industry best practices under design control and stage-gate process

- Interface with stakeholders to collect and define requirements

- Design and develop user interfaces

- Verify and validate software by writing and executing formal test cases

- Develop software development project artifacts and documents

- Maintain version control and administer code repository

- Oversee external software development teams

- Manage software updates in partnership with technical support and field engineering team members

- Assist engineering technical support in troubleshooting and compliant investigations

- Support manufacturing & product development by developing automation & test scripts

- Establishes and maintains engineering standards and procedures

- Reports progress regularly to management

- Complies and adheres to all Company health, safety and environmental policies

- Other duties as assigned

Job Requirements:

- B.S. in Computer Science, Computer Engineering, or Electrical Engineering and 10+ years work experience developing software. M.S. and experience in life sciences or medical device industry preferred.

- Strong understanding and demonstrated experience with instrumentation control software. Must have experience with the following:

    o Controlling hardware (e.g., data acquisition, pumps, etc.)

    o Communications (wireless, USB, LAN, etc.)

    o Usability and GUI design

    o SQL Database programming

    o Windows, Unix/Linux, and real-time OS

- Proficient with C/C++/C#

- Strong understanding and demonstrated experience with software development best practices. Experience with the following:

    o Agile development

    o Development and maintenance of project artifacts

    o Formal Verification and Validation testing

    o Writing and conducting static and dynamic test cases

- - Up-to-date regarding modern cybersecurity threats

  - Bug/issue tracking (Jira, Bugzilla, etc.)

  - Version control (Bitbucket or equivalent)

  - Familiarity with computer architecture

- Experience working with or overseeing an external development team

- Strong troubleshooting skills (particularly regarding hardware control software)

- Experience with Python and other modern scripting languages

- Familiar with FDA regulations of software preferred

- Ability to work effectively in team environment as well individually

- Demonstrated ability to be creative and willing to contribute to areas outside of personal expertise

- Strong oral and written communication skills

- Strong organization and time management skills

- Experience developing project schedules (MS Project preferred)

- Ability to travel 10-15 %

MaxCyte, Inc. is an equal opportunity employer. To apply, please send your resume and cover letter to careers@maxcyte.com. Please reference **Senior Software Engineer** in the subject line.