

Job Title: Software Developer Full Time Position

Department: Product Development

Job Summary:

MANTECH manufactures software-driven automated laboratory and process analytical equipment for water and soil analyses.

The successful candidate will work with a small team of other developers to:

- Design and develop new control/automation/reporting software for MANTECH's lab products and systems, primarily in C#, developing for Windows desktop users.
- Perform manual and unit testing for error free release of the software.
- Integrate new equipment into existing software.
- Maintain and update existing applications, making fixes and changes based on user feedback.
- Improve software development method by introducing new development practices like Agile, TDD etc.
- Create and maintain documentation.

This development involves working with and integrating MANTECH made and third-party equipment such as: cartesian robots, chemical analyzers, DAQs, pumps, valves, etc. This work may involve reverse engineering communication protocols, optimizing device function, practical testing and iteration, development of internal testing/development tools, supporting field installations of beta software, and other technical roles. The product development team works closely with Lab and QC personnel to define software behavior and requirements, as well as facilitate practical testing and provide feedback. Projects may require to development in other languages (java, python, html/css/javascript, etc.) and development targets (basic web, embedded systems, etc.).

Education:

Bachelor's Degree in Computer Science, Software Engineering, or a related field; or significant work experience in similar roles.

Required Qualifications:

- Development experience in one or more object-oriented language (preferably C#, but a combination of other OOP language + C/C++ experience would be acceptable).
- Basic knowledge of version management (preferably Git).
- Knowledge of project management method like Agile, Kanban, Scrum etc.
- Knowledge of Test-Driven Development methodology using Nunit/Junit/Xunit etc.
- Development experience with integrated IDEs like Visual Studio, VS Code etc.
- Strong focus on delivering high quality, organized, and well commented software and documentation.
- Ability to work independently on development tasks as well as collaboratively with other developers on the larger project.
- Excellent time management and communication skills.
- Possess strong analytical and problem-solving skills with high attention to detail.

- Exceptional ability to work with multidisciplinary teams to solve technical challenges.
- Willingness to travel, ~5% .
- A good sense of humor.
- Ability to work safely in a lab environment with chemicals, automated equipment, and other personnel.

Desirable Qualifications:

- Experience with implementation of complex mathematical algorithms into application software.
- Knowledge of basic chemistry and/or lab equipment.
- Experience developing great UX for complex systems.
- Experience developing Reporting Architecture using report generators (Telerik, Crystal).
- Experience in designing UML diagrams (Use-case, Functional, Class).
- Experience in working in a cloud environment.
- Experience writing high quality scalable code.
- Experience with SQLite or SQL.
- Experience developing for mechatronic or physical systems.
- Knowledge of common industrial systems (PLCs, 4-20mA, CANbus, etc.).
- Experience interfacing with embedded systems (UART, I2C, IP Sockets, etc.).
- Experience with electrical troubleshooting.

Compensation:

- Competitive salary (60-65K)
- Great benefits RRSP Matching
- 3 weeks holidays, 6 paid sick days
- Bonus

MANTECH is committed to supporting a culture of diversity and accessibility across the organization. We hire the best talent regardless of race, color, creed, national origin, ancestry, disability, marital status, age, sex, veteran status or sexual orientation. If you require special accommodation to complete any portion of the application or interview process, please contact 1 (519) 835-7620 amenegotto@mantech-inc.com