



Software Engineer III

Department: Product Development Group

Reports To: Chief Scientist

Job Function:

The Software Engineer III is responsible for implementing business application software using Visual Studio 2008 and 2010, as well as other Microsoft based development tools, while following best practices and established guidelines. All developers are required to adhere to the policies, procedures, and practices specified in MSI's Agile (SCRUM) based environment. The role will work closely with other team members to produce working high quality software, which includes unit testing and functional validation. This role requires a dedicated and always willing to learn mindset as the technologies being applied are on the leading edge. All applicants for this position are expected to be experienced with C# development. The SEIII role is also one of technical advocacy and mentoring more junior developers, and therefore requires good communication and interpersonal skills.

Duties and Responsibilities:

Overall: Be an integral part of the Product Development Group by increasing the quality of our products, providing product direction, and increasing the quality of software produced.

- 50% Coding – As a professional developer, your primary responsibility is writing quality software. Understanding the costs involved with software defects, you will be conscientious about producing defect free software. Knowing code is written once and changed often, it is important that your code is easy to understand by fellow developers, follows standards, and is structured to promote simplicity and reuse.
- 10% Increasing Product Quality – As part of the Product Development Group, it is everyone's responsibility to increase the quality of our products through creation of unit test cases, product testing, and support analysis. To enable your fellow developers to produce quality software, you are expected to document critical functionality and software design with concise comments and documentation.
- 10% Providing Product Direction – While developing code for our products, your insight into the tools and existing code available is valuable in the creation of our products. Sharing this with your team will result in better products and services for our customers. This will consist of JAD sessions and providing feedback on products to your team. You are also expected to actively seek out new software, practices, and tools that will add value to our products.
- 10% Other - As a member of the Product Development Group, you will be asked to support the team in a variety of roles. This may be supporting beta sites, maintaining lab equipment, etc.

- 20% Training/Mentoring – As a senior technical member of the Product Development Group, you will be asked to provide formal and informal training in your area of expertise internally to the team as well as possibly to other teams within MSI. You will be expected to act as a mentor and advocate for the use of patterns and practices within the PDG group.

Knowledge, Skills, and Abilities:

- 4-year degree in Computer Science preferred.
- At least 5 years experience developing in C# required.
- Experience in Web Services and multi-tiered software required.
- Demonstrated ability to produce functional applications required.
- Must remain current on Microsoft technology (Windows 7, SQL Server, .Net, Silverlight, Visual Studio, Expression Blend, etc).
- Understanding and acceptance of Agile software development practices.
- Understanding and acceptance that business software is maintained over time and clarity and simplicity of code is of utmost importance, this is a pivotal development philosophy at MSI.

Salary:

Based on experience and qualifications.