
Job Description for Q&A Lead**Job Category: Software Engineering: Test****Location: Russia, Moscow****Division: Microsoft Russia Technical Computing R&D**

Senior Test Software Engineer, Q&A team lead for Russian Technical Computing team

Do you want to be a leader driving the parallel revolution in personal and technical computing? Do you want to partner with a set of talented and innovative SDETs to define how to test cutting edge parallel and distributed mathematic runtimes?

If you answer yes to the above questions, then keep reading..

Microsoft recently announced the Technical Computing initiative to the world:

<http://www.modelingtheworld.com>. We are committed to providing millions of scientists, engineers, and analysts with the computing power and tools they need to speed discovery and spend more time on their work instead of grappling with complicated technology. Workbench Compute Services is a new team within the Technical Computing Group focused on the end-to-end work flow and scalable computation needs of scientists, engineers, financial experts and other domain specialists. We are dedicated to accelerating our customers "time to insight." We are looking for a driven Software Design Engineer in Test who is looking for the challenge of a leadership role on a v1 team, and who enjoys building rich, intuitive user experiences and scalable online services for a new set of customers. Key technologies for this position include Visual Studio, Excel, WPF, and Windows Azure, although due to the fluid nature of a new team, a successful candidate will need to work on many projects throughout the lifetime of the release. Other technologies and products included in our area of focus include compiler tooling, mathematical libraries, Windows Server HPC, parallel computing and other computational and data centric technologies.

The Workbench Compute Services team charter spans client, cluster and cloud computing. This brings an incredible opportunity for you to leverage your existing expertise in client or online services testing while ramping up in the areas for which you are not familiar.

The Parallel computing team in the Technical computing organization is actively planning the next wave of concurrency runtimes, in the next release we shall be heavily investing into scaling our runtime to the cloud and the clusters, and in making general purpose GPU programming much more accessible to a broader set of developers. If you are looking to make a difference in how software impacts people's lives and to be a leader in innovative software, then the Parallel Computing Platform organization is the place for you!

Primary Responsibilities:

You will own the end-to-end quality of your features, you'll be responsible for ensuring that they

meet the customer requirements (through specification contribution and design reviews), are high quality implementations, and are of the highest performance and reliability (through the development of good stress, performance and scalability tests). This will involve designing and developing solid and extensible automated test suites, participating in product design meetings and representing the customers in those meetings, actively communicating with development and PM counterparts about critical issues, and being the quality champion for your components throughout the project.

But if you thought this is merely testing, think again. We want to push, grow and totally leverage your software design and development skills. They are in fact critical for your job. As the first consumers of our concurrency platforms and programming models, you will develop new ways to utilize the concurrency framework, helping us anticipate and identify best practices developers everywhere will use to effectively deliver parallel applications.

Responsibilities for the position include:

- Providing feedback on feature specification and design based on customer requirements
- Test plan development
- Parallel mathematics functions testing (BVT, FVT, CT, ST)
- Providing feedback in the review of development code and unit tests
- Test case development, debugging and execution within multiple contexts of the product
- Integration and potential aggregation of existing test automation infrastructure
- Defect reporting and product feedback based on customer requirements
- Signoff on feature set based on customer requirements and product exit criteria

Qualifications:

- 4+ years of professional software development experience
- 2+ years of technical test, quality assurance or test driven development
- Strong Mathematical background - familiarity with numerical methods, linear algebra or image/signal processing
- A BS in computer science, mathematics, physics, engineering, or related field
- A strong understanding and demonstrated ability to solve problems in code with data structures and algorithms (C#, C++, etc.)
- Academic or industry experience in financial, scientific, engineering or research role is a plus
- Good verbal communication skills and written communication skills
- Ability to travel to US

Some prior exposure or experience to one or more of the following areas is a definitely big plus:

- Experience with any parallel programming or administering clusters or virtualized servers

<http://www.microsoft.com/rus/careers>