

Quality Engineering



Ionidea's QA/Testing Practice

Taking Care of Comprehensive Testing Requirements

Ionidea's QA/Testing Practice was set up in 1997 with the following objectives:

To help in testing needs of our clients

To setup a test lab to do the following:

- Have access to state-of-the-art test automation tools
 - To set up customised test beds for specific domains
 - To be able to develop test plans/ procedures in accordance with IonExpress - Our Software Development/Test methodology Based on Rational Unified Process (RUP)
 - To cater to specific functional/ performance testing needs of our clients
 - Development of customized test drivers/test software
 - To be able to initiate a testing lifecycle in our test labs
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- To partner with leading test tool manufacturers like Rational, Mercury, Segue
 - To augment test staff depending on the needs of a client
 - To be able to adopt the client's development/test methodology and provide effective test processes and results
 - To help in setting up, defining and institutionalise software development processes with a road map like ISO/CMM.
 - To help Ionidea to achieve ISO 9000 and CMM level 3 certification. We have set up a test lab in Fairfax which caters to the needs of our clients. Currently we are in process of setting up a stress test environment for one of the leading DSL providers in the US.

Currently we have partnered with the three leading test tool manufacturers (**Rational, Mercury and Segue**). The advantage such a

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partnership gives us is that it provides adequate exposure to the leading test tools, address our training needs, provide the test tool vendors with quality testing staff in order to augment their consulting staff etc. The benefits to the clients is that they give qualified/certified test professionals with the depth of knowledge which can be used to solve complex test planning and execution problems. Also we have a team of around 25 experienced test professionals working at our **test labs in Fairfax, USA, Bangalore, India** and at our clients in the US.

The typical test hardware we currently have is as follows:

- NT/Unix Boxes (Intel, Sun, HP), Linux
- Windows 2000/98 clients
- Solaris 8, Linux, HP UX
- Web Servers like Weblogic, Websphere, Tomcat, Apache
- Rational Rose, Requisite Pro
- Clearcase, CVS

Test tools: Rational Team Test, Mercury Winrunner 7.0, LoadRunner, Test Director, Segue's Silk Test 5.03, Silk Performer 4.0 (250 virtual users)

The profile of the test engineers is as follows :

- Bachelors in Science /Engineering
- Average 3-5 years experience in software testing with a prior development background
- Excellent inter personal/ communication skills
- Expertise in one/all of the three test tools mentioned above
- A Quality Mindset

Some of our client's success stories:

- Setup a software development iterative life cycle for a Reengineering effort of a legacy C/ Embedded SQL system in to state-of-the-art distributed OO system. Our team was called in by one of the leading Financial Institutions to spearhead a Quality Assurance

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effort which involved the following activities:

1. Define various phases of a lifecycle
2. Define checkpoints and quality criteria
3. Develop checklists for Reviews
4. Come up with an iterative test life cycle for system, integration and unit testing
5. Institutionalize a robust requirements gathering process

6. Develop a practical alpha/beta testing

- Setup a test process for one of the leading telecom companies implementing a product using Forte/Oracle.
- Augmenting test resources for regression testing efforts at some of our clients.