

## **Power Tagging Technologies, Inc. Job Description**

**Position Title:** Java Developer I (Senior JEE Specialist)

**Reports to:** Director Software Engineering

**Location:** Boulder, CO, USA

### **Position Summary:**

This is a senior position for a skilled Java developer. The Java Developer I designs, develops, and tests Java Enterprise Edition code using a multi-tiered architecture wherein the standard MVC pattern is extended to combine a data aggregation server residing in a data center with a hierarchical network of data collection servers in electrical utility substations. These servers are, in turn, controllers for a network of embedded communication devices employing a unique on-grid communications technique (Power Tagging Technology). The embedded devices run a Linux kernel and application software developed in C, and ability to occasionally undertake maintenance tasks on the C code is a plus. The software under development will run in a public utility environment and is subject to the most stringent quality control. The successful candidate will have the ability to balance this quality requirement with the agile work environment in an R&D-focused organization with rapidly changing functional requirements.

### **Reporting Functions:**

- None at this time

### **Duties and Responsibilities:**

- Design, Develop, and Test a multi-tier web services application in an agile development environment with just-in-time requirements, using key technologies: SOAP, REST, JEE, ORM, JMS.
- Work as an active participant in agile process activities including Planning Game, Scrums, Retrospectives, and Design and Code Reviews.
- Study and understand requirements and design documentation and create code of high quality that is compliant with all functional and non-functional requirements.
- Work in an open and cooperative fashion with the DVT organization (DVT refers to Design Verification Testing, or black-box testing) to facilitate the good communication necessary to create an ultra-high quality end product.
- Create comprehensive unit tests for all code developed, and comply with the strictures of the continuous-integration development strategy.
- Comply with group standards regarding instrumentation of code for automatic documentation (Javadoc), event logging and tracing, and updating of development WIKI.

### **Travel:**

Less than 25%

## **Qualifications and Skills:**

- Bachelor's degree in Computer Science or related discipline is required.
- Strong academic and practical background in Object-oriented Design (OOD). Familiarity with the concept and use of OO Design Patterns is a must.
- A minimum of 6 years' experience in Java software development.
- Ability and willingness to work in an agile software development environment. Academic knowledge of agile methods such as Extreme Programming or Scrum is required. Two years or more experience working in an agile environment is required.
- In-depth knowledge of a JEE web-service environment such as JBOSS, Glassfish, or WebSphere. Experience with Glassfish *strongly* preferred. Must have clear understanding of message-based and publish-subscribe architectures, with reduction to practice using SOAP strongly preferred. Best is familiarity with W3C standards regarding SOA, including WS-Security and WS-Eventing.
- Working knowledge of HTML and experience with web page design. Experience with Adobe FLEX is a big plus.
- Basic understanding of C language constructs and design principles. Ability to develop simple C programs or maintain C-language libraries.
- Excellent written and spoken communication skills with ordinary proficiency in MS Office Suite (Word and Excel at a minimum. VISIO preferred.)
- User-level understanding of Linux and proficiency with one or more command shells (bash preferred).
- Ability to use web search tools, product bulletin boards, etc. to conduct evaluation of third-party tools and find solutions to product-related defects.
- Experience with the Eclipse IDE and plug-ins.
- Experience with any Source Code Management tool.
- Experience with any of the following is a plus: JUnit, JNI, Cruise Control, Ant, Maven, SQL, UML, Javascript, Ubuntu distribution, JDBC, Log4J, Syslog standard.
- Must be authorized to work in the United States on a full-time basis for any employer.

The above qualifications are not to be interpreted as a complete and detailed description of all requirements of the job.