



Open Source Architecture and Tools Engineer

1 October 2012

Purpose

To drive Trimble in the adoption of open source software tools and methodologies; to facilitate the use of the open source software model within the company; and to improve compliance in the use of open source software from external sources.

General Description

Trimble is seeking a passionate individual to foster the use of open source software, both internal and external, via the introduction of excellent tools and methodologies within the company.

The successful candidate will have expertise with open source software governance; will have working knowledge of a variety of software configuration management and build tools; will have the skills to implement the systems they require; and will advise on the use of third-party open source software.

This is a contract position anticipated to last one year. The Open Source Architecture and Tools Engineer will work with a diverse collection of engineering groups worldwide, and report to the Engineering Council through the Trimble Delivers team.

Objectives and Duties

- Foster the development of a vibrant and effective open source software development community within Trimble.
- Advise Trimble software teams on the best approaches to establishing and administering open source software repositories.
- Recommend appropriate software architectures and tools to enable the successful use of open source software. Support and lead implementations of software configuration management and continuous integration systems to enable open source software development within the company.
- Assess and recommend open source software appropriate for use by Trimble development projects.
- Support and lead implementation of processes for the contribution by Trimble of software back to third-party open source software projects.
- Working with Trimble's Open Source Advisory Group and Trimble Legal, guide the software development community on the proper usage of third-party open source software.

- Define and implement a scanning process to detect the usage of third-party open source software. Responsible for the setup and administration of tools used by the company to monitor usage of third-party open source software.
- Worldwide travel as necessary to accomplish the above goals (+40%).

Skills and Qualifications

- Superior communication skills, both written and verbal, in English; ability to effectively communicate across national and cultural boundaries.
- Demonstrated ability to effect organizational change and foster teamwork.
- More than 5 years of experience in the software industry with direct experience in an open source software environment, software configuration management, build management, and cross platform development.
- Deep familiarity with more than one software configuration management system (e.g. Git, CVS, Mercurial, Subversion).
- Deep familiarity with at least one continuous integration environment (e.g. Hudson, Jenkins, CruiseControl); knowledge of Microsoft build tools is a plus.
- Ability to write and troubleshoot complex build scripts in a variety of languages (e.g. CMake, Perl, Python).
- Deep familiarity with at least one Issue & Project Tracking system; Jira knowledge is a strong plus.
- Prior use and/or development of geomatics-related open source projects (e.g. OpenCV, Point Cloud Library, OSGeo projects) is a strong plus.
- Ability to setup and administer these systems; ability to train others to do so.
- Bachelor's degree in Computer Science, Information Technology, or equivalent.

Job Category

Software Engineering

Location

Westminster, Colorado

Point of Contact

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Director of Innovation