



Job Title: Expert C++ Software Engineer
Location: Scottsdale, AZ
Department: Engineering
Reports To: Manager, Precise GNSS Network R&D

Full-Time Part-Time / Exempt Non-Exempt

Essential Duties and Responsibilities

- Software design and development for scientific data processing that handles large datasets
- Implement advanced methods to boost computational performance for large data processing
- Provide recommendations on software structure and algorithm improvement of existing software
- Ensure software development is performed in accordance with defined specifications and guidelines
- Oversee and ensure software algorithms adhere to the defined software coding standards
- Perform code review, develop and automate unit tests
- Perform system administrative tasks of maintaining multiple LINUX OS servers and setting up server as needed
- Develops software solutions by studying information needs; studying systems flow, data usage, and work processes; investigating problem areas; following the software development lifecycle
- Support operational data processing system, software deployment and maintenance
- Deliver documentations on software design, architecture and testing as needed

Supervisory Responsibilities

This position will not supervise direct reports.

Education and/or Work Experience Requirements

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education and/or Experience

- Master's Degree (or above) in Software Engineering or Computer Science
- 10+ years of professional experience in C++ software development
- Excellent knowledge in software design and development, and system analysis
- Experience creating and maintaining IT architectures and databases on Linux OS
- Experience working with binary data decoding and encoding, implementing multi-threading concepts, writing and maintaining CMake files
- Knowledge and experience in software development life cycle, unit testing, continuous integration (Jenkins/GIT), and problem solving
- Experience using software version control, such as SVN, TFS or/and GIT
- Strong collaborator and experienced working in a multi-disciplinary team
- Strong analytical and troubleshooting skills
- Quick learner and self-motivated

Practical/Technical Skills

- Familiarity with GNSS systems and concepts is an advantage
- Strong documentation and writing skills

**Computer Skills**

- Strong programming experience in C and C++ and Python
- Basic knowledge in Fortran and Perl is an advantage
- Proficient in Linux OS
- Basic knowledge of Windows OS

Certificates, Licenses, Registrations

- N/A

Language Skills

- Excellent verbal and written communication skills, including ability to effectively communicate with internal and external customers
- Ability to effectively present information to customers, clients, management, board of directors and other employees of the Company in small group situations, public groups, and/or one on one