SOFTWARE ENGINEER FOR SCIENTIFIC APPLICATIONS (ABQ)

Posting ID: EM200134B7
Company: Stellar Science
Position Type: Full-Time
College Major(s): Computer Science (CS)

Company Website: https://www.stellarscience.com/
Work Location: Albuquerque, NM
Salary:
College Level(s): Undergraduate-Senior, Graduate Student, PhD. Student, Alumni

OVERVIEW

We hire smart Software Engineers who love to create and maintain high quality, extensible code: OOP in C++14/17 or Java (willing to learn modern C++).

Stellar Science is a growing Albuquerque-based scientific software development company seeking talented software developers to create and extend exciting scientific and engineering analysis applications. We maintain high standards in all our software development efforts, utilizing modern development practices including continuous integration, test-driven development, and code reviews in order to develop high quality, maintainable, and reusable code. By employing a lightweight development process, we remain highly productive and responsive to changing customer needs.

Applicants may range from recent college graduates to experienced software engineers; the main requirements are that candidates be top-notch, responsible, self-motivated, honest, able to work well independently or in small teams, and be able to rapidly learn new languages, tools, and techniques as needed to meet mission requirements.

A representative sample of your code may be requested early in the evaluation process, e.g. something you've written for work, for a class, or for fun. It need not compile, but should be long enough to help evaluate your programming and software engineering skills.

Stellar Science is a forward-thinking business that allows its developers and scientists to work at home on occasion when consistent with job requirements. Standard benefits include ten paid federal holidays (which may be floated as desired), three weeks vacation, a generous fully employer-funded SEP IRA, and fully employer-funded health insurance, as well as dental, disability, and life insurance.
Roles and Responsibilities
Support software development in the following domains: computer vision and image processing, image simulation, high power microwave systems modeling and simulation, laser source generation and effects modeling, computational electromagnetics (CEM), space situational awareness (SSA), high performance computing (HPC), and computer aided design (CAD) tools, among others.

Education and Qualifications
B.S. in computer science or a math, science, or engineering field

Substantial software development experience

Object-oriented design and programming in C++, Java, or other OO language.

Adept at learning new paradigms and programming development processes

Willingness to develop high quality code in C++

U.S. citizen willing to undergo background investigation and perform some work at Kirtland Air Force Base

Preferred Skills
Advanced degree in computer science or a math, science, or engineering field

Experience in any of the following is a plus:

Cross-platform software development on Linux, Windows, Mac

3D graphics using OpenGL, Open Scene Graph and/or WebGL

User interface development with Qt, Java Swing, GWT

Supercomputing, OpenMP, threads, MPI, GPUs

Google closure or similar tools for large-scale javascript development

OSGi, Orekit, or Apache Commons Math

Image processing, imagery analysis, or computer vision

Aerospace vehicles, orbital mechanics, electromagnetics, or space situational awareness

Directed energy modeling and simulation

Computer aided design (CAD)

How to Apply