

## **INTERNSHIP – SOFTWARE ENGINEER**

Numerica's Software Engineers excel at developing state-of-the art algorithms and software systems that solve real-world scientific and engineering problems. By participating in small teams, they have the opportunity to be part of cutting-edge product development that makes a difference. In addition to revolutionizing tracking and data fusion technologies, our Software Engineers innovate in a number of other areas. Whatever the problem domain, each Software Engineer at Numerica is dedicated to working on advanced information science algorithms and applications that promote the success of our customers. This is an indispensable position in support of delivering next-generation scientific and engineering solutions to the U.S. Government and commercial markets.

*This internship affords a wonderful opportunity for a student to participate in a nationally recognized program developing operationally relevant software.*

### **ESSENTIAL DUTIES AND RESPONSIBILITIES**

A successful candidate for this position will participate on a small team and have the following duties and responsibilities:

- Assist with software design employing a combination of object-oriented, functional, and declarative approaches;
- Assist with the transition of high performance mathematical algorithms from scripting languages such as Matlab or Python to C++ and then to real-time system-level software;
- Assist with testing software components and programs involving complex mathematical specifications;
- Assist with diagnosing issues in complex scientific software at all levels, from fundamental mathematics and algorithms to software testing and evaluation on real data;
- Perform light system administration in support of software team.

### **EDUCATION and/or EXPERIENCE**

Successful candidates should be working towards a completed degree (undergraduate or graduate) in Computer Science, Electrical Engineering, Applied and/or Computational Mathematics, Statistics, Physics, or related field involving software development. Numerica seeks applicants with the following experience and skills:

- Experience in C++ programming in a technical or scientific environment;
- Comfortable working in the Linux operating system;
- Demonstrated ability to quickly develop expertise in unfamiliar areas.

Many of the algorithms and software involve computer science algorithms, linear algebra, numerical analysis methods, and probability/statistics. A good working knowledge of these areas is helpful.

This is a paid internship with an expected start date in August and end date in May 2015. Consideration for fulltime summer opportunity will be given after the term is complete. Preference will be given to senior undergraduates and graduate students.

### **U.S. CITIZENSHIP REQUIRED**

Due to the nature of the work performed by Numerica, all applicants must be capable of obtaining a U.S. Security Clearance. At a minimum, this requires that a candidate be a U.S. citizen and have a trustworthy background (e.g., clean criminal record, reasonable credit, no use of illegal drugs, etc.).

Learn about Numerica's growth and innovation, explore published papers, and apply online at [www.numerica.us](http://www.numerica.us)

***Numerica is an equal opportunity employer.***