

JOB OPENING

Quantitative Developer In Baltimore, MD

Summary:

The Quantitative Developer will support and enhance the company Investment and Hedging applications, through the technical architecture, design and development of software, database systems, and integration of third party applications. In addition, this role will include participation in the strategic planning around future development/integration of the applications. The Quantitative Developer will learn, develop and enhance loss reserving models and tools. Candidate must have solid knowledge of loss reserving and insurance statistics, a strong mathematics background and solid programming experience with MatLab. This position leads the MatLab model development function for the Investments group. As such, they serve as the primary programming and system resource for MatLab development.

With the Director of Hedging, this position will consult with various investments and other information technology groups on activities related to Client's investment systems and processes. This position is directly responsible for the management of the MatLab releases and will perform an investment review of all calculations.

Organization:

This position reports to the Director, Business Systems within the Information Technology team, but will take guidance from the AVP of Hedging. This position will require regular interaction with the trading desk, information technology groups, and other internal departments such as Treasury and Investment Accounting.

Duties and Responsibilities:

- Coordinate and perform all required development changes to the MATLAB system
- Perform or review all programming changes to MATLAB models
- Facilitate investment sign-off on model enhancements or additions
- Execute changes in a manner/model consistent with the current model, ensuring that changes in one place do not cause problems elsewhere within the model or within other related systems
- Ensure that the system is functioning optimally and efficiently
- Understand the relationships among systems for assigned business area as well as interfacing systems and recognize their interdependencies
- Work closely with business to identify and document business needs
- Collect and organize information in clear, concise written requirements that can be used to verify understanding of the solution
- Work with other I.T. groups to create grid environment for processing and a data warehouse for reporting

- Establish performance and risk reporting systems to fully replace existing reporting and valuation capabilities, including support of actuarial valuation and risk sensitivity support for indexed product liabilities and assets
- Identify and document gaps in business and/or system functionality across applications
- Work with outside consultants and solution providers on business issues and needs
- Thoroughly verifies results against expected results
- Prepare/Create reports such as P&L, Attribution, etc.
- Prepare presentations based on analysis of system reports
- Ensure alignment of investment and hedging based applications portfolio with company goals and strategies, managing performance to objectives
- Follow the company development methodology and project lifecycle to understand requirements, plan software and database systems, author code, test code and deploy applications consistent with change control procedures
- Lead and document the architecture and technical design of loss reserving models and applications based on requirements gathered in the project lifecycle
- Perform routine unit, quality assurance, regression, and load tests to validate the readiness of internally and externally developed code for production
- Utilize source code control software to store and manage code versions
- Review the code and application designs produced by consultants and provide instruction and guidance to ensure work is completed to the company standards of quality and performance
- Successfully implements and tests model changes
- Provide technical guidance within the solution delivery area and enforce standards for system architecture, code quality and collaborative team development
- Ensure that proposed designs meet security and compliance guidelines
- Attend conferences, developer forums and training opportunities to ensure current technology trends are understood and applied within the company environment

Experience and Education Requirements:

- Bachelor degree and a minimum of 5 years of experience in a financial programming position
- Must have experience with IT architecture system and construction
- Knowledge and experience building models with MATLAB or similar investment modeling/valuation system
- Intermediate knowledge and experience with programming languages such as VBA, C++, C#, SQL and experience working with RDBMS (MS Access, SQL Server)
- Proficient knowledge of software used for investment analysis, portfolio management, and reporting such as Microsoft Office (with an emphasis on Excel and Access), Bloomberg, as well as other financial and statistical software packages
- Demonstrated experience in Project/Process management
- Knowledge of industry best practices/methodologies
- Strong communication (verbal, written and presentation), organizational and analytical skills required

Preferred Skills and Abilities:

- Experience building investment solutions, or tools of marketable quality (Bloomberg, SQL based reporting systems)
- Experience combining MATLAB with other programming and analytical tools (e.g., C#, VBA, Excel)
- Strong programming and mathematical skills
- Knowledge of general account insurance products