

Senior R&D Analytics Developer

Posted: 5/1/2014

Closing: Position will be open until filled.

Contact: Send resume to jobs@QtMed.com.

Company Info

Quantitative Medicine delivers software as a service (SaaS) predictive analytics for early-stage drug discovery research in the pharmaceutical industry. These services leverage active machine learning methods to improve experimental efficiency. More information is at QTMED.COM.

Position

This position will work with the team developing and applying advanced statistical methods for the integrated analysis of large-scale pharmaceutical datasets. The incumbent will design, test and implement innovative data analysis methods used by laboratory researchers to both improve experimental efficiency and gain new insights into their research. This position is also responsible for evaluating fits, error metrics and model diagnostics to assess and improve model performance; curating large datasets and bringing to the company “best practices and techniques”. The person in this position will need to use a wide array of machine learning algorithms and data mining methods (i.e. active learning, Markov models, decision trees, boosting, random forests, support vector machines). This person will also be responsible for providing understandable interpretation of the analyses to the array of scientists and research managers working in different stages of drug discovery and development.

Quantitative Medicine is a new and growing company and an exciting place to work. Applicants will report to the Chief Science Officer and can expect to work on a variety of tasks relevant to the design and delivery of powerful analytics for our growing number of clients.

Preferred Education:

PhD or Master's level degree in machine learning, computer science, statistics, mathematics, bioinformatics, computational biology, computational chemistry, biology, chemistry, physics or other related fields.

Key Responsibilities:

- ◆ Develops software solutions by conferring with users and studying information needs; investigating problem areas and ongoing monitoring of work processes, systems flows and data use.
- ◆ Develops and documents system improvements through clear code, code comments, flowcharts, layouts, diagrams, charts and other documentation.

- ◆ Improves operations by conducting systems analysis and recommending changes in policies and procedures.
- ◆ Protects operations by keeping information secure and confidential.
- ◆ Supports developing scientific and trade publications, presentations at conferences, and web and sales collateral material.
- ◆ Supports sales, project development and reporting as needed.
- ◆ Updates job knowledge by studying state-of-the-art development tools, programming techniques and computing equipment; participating in educational opportunities; reading professional publications; maintaining personal networks; participating in professional organizations.

Required Skills/Experience:

- ◆ Extensive experience with statistical and machine learning methods and software, such as Python, SAS, R, Mahout, Matlab or Octave. Excellent programming skills with knowledge of multiple operating systems, scripting languages and the ability to deal with very large amounts of data.
- ◆ Familiarity with UNIX and at least one major programming language, such as, C, C++ or Java.
- ◆ Experience working with large data sets within distributed computing environments (Map/Reduce, Hadoop, Hive, etc.).
- ◆ Experience working in cloud computing environments.
- ◆ Ability to creatively think about problems, investigating new techniques and technologies to solve analytical and service development problems. Ability to communicate complex quantitative analysis in a clear, precise and actionable manner with excellent interpersonal, written, and verbal communication skills.
- ◆ Professional demeanor with ability to work closely with industry clients involved in pharmaceutical research.
- ◆ Ability to think analytically, write and edit technical material, and relate statistical concepts and applications to various audiences.
- ◆ Knowledge of biology, medicinal chemistry and/or pharmaceutical industry drug discovery and development processes a plus.
- ◆ Ability to work independently and in a team environment.

Location

The position will be located in Pittsburgh, PA.

Salary

Salary and benefits (including a competitive stock option plan) will be commensurate with the level of skills and experience.