

Data Scientist

Employer: SmartUQ LLC

Work location: 3545 University Ave. Madison, WI 53705

Job Duties:

Develop advanced statistical and data analytics algorithms and methods for uncertainty quantification, design of experiments, predictive modeling, etc.

Implement different statistical methods, data analytics algorithms, and machine learning algorithms in both R and C++.

Develop state-of-the-art statistical methods to improve the accuracy and efficiency of existing methodologies.

Design and conduct experiments; evaluate and compare the performance of different statistical methods.

Research and develop new statistical features to solve challenging data analytics problems.

Implement analytical models into production by collaborating with software engineers. Support SmartUQ software development.

Oversee the design and testing of software for statistical analysis and modeling features. Prepare and perform unit and system test for new features.

Work with software engineers and application engineers to refine statistical features. Translate the developed methods into new statistical features in software.

Develop innovative data driving solutions for real simulation-based decision problems.

Perform research in prevailing statistical methods and machine learning algorithms to solve specific engineering problems. Use cutting-edge statistical methods to solve modern industrial challenges.

Manipulate high-volume, high-dimensional data sets to highlight relationships, trends, and other insights.

Analyze large, complex data sets for trends and patterns. Analyze data for external and internal projects, and write reports.

Collaborate with cross-functional teams to plan, develop, execute, and launch the releases of software in statistical analysis and modeling. Identify and communicate problems or issues impacting software releases.

Analyze and prioritize customer needs and incorporate them into product requirements. Develop new methods to solve customer problems.

Work with chief scientist to identify new features for product enhancements and extensions.

Compare SmartUQ software to competitors' products in order to assess and adapt to competition in the market.

Develop statistical techniques and methods for simulations and real data. Write and publish papers on the developed techniques and methods.

Minimum Requirement:

Ph.D. in Statistics or related

Courses taken in Nonlinear Optimization, Mathematical Machine Learning, and Uncertainty Quantification.

How to Apply:

If you are a good fit, send your cover letter and resume to hire@smartuq.com with "Data Scientist" in the subject line of your email.