



Senior Optimization Scientist

SignalDemand delivers margin optimization software that enables process manufacturers to maximize profitability, even as costs and markets change around them. The company's applications rely on the latest econometric models, optimization algorithms, and activity-based costing techniques.

Position Overview

The Senior Optimization Scientist leads the development of optimization models and algorithms in the area of price and supply optimization. As a principal member of the science team, this person will collaborate with product managers, software engineers, customers and other science team members. Team objectives will be to define requirements, develop models, design optimization methodology, and write software to implement the models.

Responsibilities

- Develop new scientific methods in the price optimization area.
- Own optimization models for assigned customers. The duties will include understanding early requirements, defining data needs, developing data extraction scripts, creating models, and analyzing results.
- Develop new optimization models for new cross-customer applications in either an existing modeling language or in a general programming language.
- Maintain existing optimization models and expand their scope when needed.
- Test the results of models for sanity, accuracy and change.
- Coordinate with engineering to implement models at customer sites.
- Analyze results from different points of view and provide insight into the results.
- Interpret and articulate optimization results and benefits for customers.

Minimum Requirements

- Ph.D. in Operations Research, Mathematics, or a related quantitative field.
- Strong knowledge of optimization and probability theory.
- 2-3 years experience in building optimization models in an established mathematical modeling language.
- Excellent communication skills and ability to interact with the customers.
- Proficiency with SQL databases (Oracle, SQLServer, DB2, etc.).

Desirable Experience

- Expertise with GAMS.
- Familiarity with both Windows and Unix environments.
- 2 years experience in applying optimization methods in the area of price, demand or supply optimization.
- Professional experience with object oriented programming (Java, C++).
- Proficiency with analysis packages (Mathematica, MatLab).

Compensation

- Competitive salary
- Stock options
- 401k
- Medical, dental and vision benefits

Contact Us

Principals only. Please email your cover letter and resume to: careers@signaldemand.com or via fax to Attn: Human Resources Department at (415) 356-0806.

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