



Enabling Science via Analytical Informatics

Company Name: Sciome LLC

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Company information:

Sciome LLC is an innovative research and technology consulting company providing state of the art informatics solutions for the life sciences industry. We specialize in developing and deploying novel bioinformatics, cheminformatics, text mining and data analytics solutions for researchers in government, academic and private sector organizations.

Job description: Statistician

Sciome consults with leading researchers across the globe and provides analytics support for experiments generating large volumes of scientific data from a variety of health and environmental projects. Sciome has an opportunity for a Statistician to provide data analytical support for diverse set of studies that investigate the complex relationship between genetic and environmental factors or potential therapeutics on biological systems. Our clients generate massive amounts of scientific data via varied high throughput technologies, and such projects require systematic analysis of multidimensional data using state of the art statistical and machine learning techniques. The candidate will have a unique chance to work with leading scientists having wide ranging perspectives on scientific issues and to progress his/her career in a growing organization.

This is a great time to join our growing team. This position promises an impactful career in a fun and relaxed work environment. Detailed position description with technical details is provided below:

Education

Masters or PhD degree in Statistics / Mathematics or closely related field.

Key Responsibilities

- Design, develop, and implement mathematical or statistical projects involving analysis of clinical and/or animal studies aimed at assessing impact of environmental or therapeutic exposure on key biological endpoints.
- Contribute towards application of statistical approaches for analysis of genomics, toxicology, environmental or clinical data.
- Participate in development of novel quantitative approaches, or customization of statistical methods per project needs.
- Identify analytical and computational bottlenecks involved in analysis and developing techniques to resolve them efficiently.
- Ensure appropriateness and applicability of mathematical, statistical, or research techniques utilized, and contribute towards rigorous evaluation and validation.
- Assist in evaluation and documentation of statistical methodologies used; and prepare recommendations based on mathematical or statistical findings.
- Participate in manuscript/report preparation to accurately summarize study design, methods, analysis plans and interpretation of results.

Desired Skillset:

The ideal candidate will have experience in several of the following areas:

- In-depth knowledge of core statistical principals and various area of statistical sciences such as generalized linear and additive models, mixed effects models and other multivariate methods, Bayesian methods, power and sample size calculation, dimensionality reduction etc.
- Familiarity with commonly used machine learning methods including support vector machines, random forests, deep learning etc. for signal enhancement and classifier development.
- Experience with high dimensional parameter estimation in the presence of missingness via multiple imputation or expectation-maximization algorithm.
- Familiarity with latent variable or hidden Markov models.
- Demonstrated ability to select appropriate statistical techniques given a data analysis problem.
- Experience with application of data-compression and sub-group detection techniques involving large mixed feature sets.
- Experience with implementation of multi-stage workflows and automated report generation is preferred.
- Experience with the use of statistical packages in R, SAS, MATLAB and Sci-kit
- Scientific programming experience using scripting languages such as Perl, Python is preferred.
- Strong communication and writing skills in English are essential.
- The ideal candidate will have a proven track record of scientific publication in biostatistics, bioinformatics, life sciences or related scientific domains.
- Must be eligible to work in the U.S.

How to apply:

Please send your detailed CV via email to [jobs \[at\] sciome.com](mailto:jobs@sciome.com).

Please refer to **Statistician** position and include your accurate contact information.

Benefits:

Comprehensive Health Insurance plans compatible with H.S.A.

Health Savings Account with employer contribution

Dental & Vision Insurance

Life Short-term and Long-term disability Insurance

Generous 401k retirement plan with employer match

Other ancillary benefits