

Position in Statistical Research

Employer: *Nature Source Genetics, Inc*

Location: Ithaca, NY

Date: September 2009

Nature Source Genetics (<http://naturesourcegenetics.com>) is a computational genomics company dedicated to the development and application of new algorithms designed to harness natural genetic variation in the improvement of plant and animal species. Located in Ithaca, New York, *NSG* scientists interact with a team of distinguished faculty from Cornell University and other major research institutions worldwide in problems related to genetics and genomics. The person hired for this position will work with and support a team of scientists working in the areas of computer science, operations research, statistics, databases, software engineering, quantitative/population genetics and breeding.

The successful candidate would be expected to take the lead in the development and application of statistical methodology as well as participate in all activities of the company. Knowledge of genetics and genomics is desirable but not required: on-the-job training will be provided as needed.

Qualifications:

- M.S./Ph.D. degree in: Statistics, Machine Learning Computational Biology, Applied Math, or related field.
- Statistics: knowledge of linear and mixed models, QTL analysis methods, power/sample size analysis, experimental design, and ability to apply maximum likelihood or Bayesian modeling to specific problems.
- Programming: Proficiency in R, SAS, or other standard statistical software package is required (R is preferred). Knowledge of QTL mapping software such as R/QTL or QTL Cartographer is desired. Knowledge of Java is preferred but not required.
- Ability to work independently and in a group.
- Positive interpersonal skills and demonstrated ability to effectively communicate with others.

Responsibilities:

- Working with the *NSG* management team, other *NSG* employees and the Scientific Advisory Board members in developing/applying statistical methodology in the solution of problems in genetics and breeding.
- Participating in and/or overseeing software development related to implementation of new algorithms and optimization tools.

- Preparing scientific reports, publications and presentations that clearly convey progress and challenges, and coordinate activities leading to related scientific publications, presentations, and patent filings.
- Attending and participating in research planning meetings with other NSG employees, the Scientific Advisory Board, and other scientists (both in academia and the private sector) related to various NSG projects.

To Apply or Obtain More Information about this Position, Contact:

Dr. Theresa Fulton
Director of Operations
Nature Source Genetics
33 Thornwood Dr.
Suite 300
Ithaca, NY 14850
E.mail: careers@naturesourcegenetics.com
FAX: 607-257-0034