

Genomic Data Scientist

Location: Frederick, Maryland
Term: Full time, Permanent

Industry: Consulting – Drugs/Biologics/Devices
Reports to: Manager, Operations

BioStat Solutions, LLC is an analytical consulting corporation in service to the pharmaceutical, biotechnology and biodefense industries. BioStat Solutions, LLC's key service areas include the development and implementation of analytical strategies for biomarker studies, precision medicine and clinical studies, and medical device / (companion) diagnostic studies.

Job Requirements:

- Conduct work in accordance with company standard operating procedures (SOPs), company QA/QC policies, client-specific requirements and applicable regulatory guidelines.
- Assist clients by providing analytical strategies in major therapeutic areas and diseases.
- Independent project development, including but not limited to, ascertainment of client needs, recommendations on statistical methodology, and authoring Statistical Analysis Plans (SAPs).
- Evaluate and incorporate latest analytical approaches (e.g. dimension reduction, machine learning, predictive analytics) addressing precision medicine questions in an industry environment.
- Provide quality control and analysis of a wide spectrum of omics datasets, including DNA-based (e.g. whole genome sequencing, whole exome sequencing, targeted sequencing), RNA-based (e.g. RNA sequencing, microarray), and other biomarker data (e.g. proteomics, metabolomics) along with clinical data collected as part of preclinical studies, clinical trials or based on electronic health records.
- Perform statistical programming in R, SAS, and other appropriate languages and validate work products by internal and/or external team members.
- Interpret findings with scientific and business context, and report in Statistical Analysis Reports, executive summaries, slide presentations as needed.
- Attend on site client visits and present findings as needed.
- Provide guidance to internal team members on statistical methodology, scientific programming, omic and biomarker technologies, and clinical operations as needed.

Qualifications:

- Ph.D. REQUIRED. Preferred Degree in: Statistics, Biostatistics, Statistical Genetics, Computational Biology, or Bioinformatics.
- At least 3 years of experience in applied projects is required. Industry specific experience is preferred.
- Demonstrated expertise in the theory and application of biostatistics.
- Knowledge of statistical methodologies and applications in genetics/precision medicine is required.
- Excellent analytical and problem-solving skills.
- Excellent written and verbal communication skills.
- Proven ability to work independently and in a team environment.
- Experience with omic data is required; experience with sequencing data is preferred.
- Experience with public databases (e.g. TCGA, UK Biobank) is preferred.
- Proficiency in R programming is required; proficiency in multiple languages (e.g. SAS, Python) is preferred; experience in Linux/UNIX environment is required.
- Experience with machine learning tools and packages (e.g. caret, mlr, TensorFlow, Keras) is preferred
- Experience with statistical and bioinformatics analysis of multiple biomarker data types (DNA, RNA, protein, etc.) is preferred.
- Experience with linear/nonlinear mixed model tools (nlme, lme4, NONMEM, etc.) is preferred.
- Experience with relational databases (e.g. MySQL) is preferred.
- Qualified candidates must be legally authorized to be employed in the US.

BioStat Solutions, LLC is a voluntary equal opportunity employer. In compliance with federal law, all persons hired will be required to verify identity and eligibility to work in the United States and to complete the required employment eligibility verification form upon hire