Sr. Scientist - Biostatistician (Position located in Houston, Texas at Johnson Space Center)

Position Overview:
The primary function of this position is to provide professional leadership, consulting skills, and expertise in the application of statistical theory and practice in support of ongoing investigations in NASA's biomedical research laboratories. Responsibilities include critically analyzing clinical and research data, assimilating findings through the application of statistical principles and practices requiring comprehensive expertise, building visualizations to convey results, and effectively communicating methods and results to a variety of technical and management audiences with varying levels of statistical knowledge.

Primary Duties:
- Review data acquisition and analysis processes and develop SOPs for defined testing
- Assist with preparation of data summary charts as required
- Effectively communicate statistical concepts to non-statisticians (managers, researchers in other fields, etc.).
- Serve as a statistical expert consultant for assigned research and occupational surveillance projects using clinical and experiment biomedical data.
- Assist with study design and develop statistical plans for data analysis in support of proposed research questions.
- Participate in statistical reviews of ongoing projects to ensure appropriateness of statistical methodology, verify quality and accuracy of statistical analyses, and ensure accurate reporting and interpretation of analyses.
- Be familiar with statistical software such as SAS, Stata, or R.
- Develop statistical deliverables (i.e., analysis plans, methodology and statistical results sections, interpretation of results) for data requests, clinical reports, presentations and manuscripts.
- Draft and edit reports and manage long-term progression of papers, presentations or poster sessions, and NASA reports.
- Participate in biostatistics team meetings to foster use of best practices and effective communication and collaboration among research and epidemiology groups.
- Participate and present information in biostatistics and epidemiology technical information exchange meetings and educational forums.
- Maintain current CITI Human Subjects Research - Biomedical Research certification.
- Other tasks as directed.
Required Education and Experience:

- PhD degree in Biostatistics, Statistics, Machine Learning, Computational Biology or in a similar discipline or a Master’s degree and at least 6 years of relevant work experience including statistical consulting experience within the medical/physiology field and clinical or occupational data mining.
- Demonstrated experience with multiple types of statistical analysis methods including generalized linear and nonlinear models with repeated measures, non-parametric modeling and analysis, Bayesian analysis, survival analysis, and techniques for dealing with missing data.
- Minimum 5 years of experience in writing analysis code in statistical software packages such as SAS, R, Stata, MATLAB, etc.
- Superior analytical, planning, problem solving, and decision-making skills.
- Excellent written and oral communication skills including effectively explaining complex statistical concepts to non-statisticians.
- Ability to work effectively in a multi-disciplinary setting.
- Ability to effectively manage multiple concurrent tasks and seek direction on competing priorities.
- Ability to work with general linear models, longitudinal and multilevel modeling, generalized estimating equations, survival analysis, and a familiarity with Bayesian principles of modeling and analysis.

Desired Education and Experience:

- Experience in the design, development and execution of research grant proposals as well as the ability to document results for peer-reviewed publications.
- Demonstrated knowledge/consulting of study design and statistical approaches.
- Experience with the statistical complexities of working with clinical care/human physiological data.
- Successful experience working both independently and as part of a team on multiple concurrent projects.
- Demonstrated experience with collaborations supporting multiple research disciplines/specialties.
- Has authored/co-authored at least 2 paper in a peer-reviewed publication within the past two years.
- Ability to be creative in developing tailor-made methods for analyzing “small-n” data sets strong knowledge of statistical methods, including advanced inferential statistical theory and methodology that can be applied to a variety of dependent measures.
- Experience with analysis of “Omics” data (e.g. sequencing, microbiome, gene expression, proteomics, etc.)
- Experience with machine learning techniques for healthcare data, predictive data modeling, and techniques for dealing with the multiple testing problem.
KBR is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, disability, sex, sexual orientation, gender identity or expression, age, national origin, veteran status, genetic information, union status and/or beliefs, or any other characteristic protected by federal, state, or local law.