Department of Biostatistics and Bioinformatics
Biostatistician II

Occupational Summary

Under the guidance of the CTSI Biostatistics Core management team in the Department of Biostatistics and Bioinformatics, perform intermediate-level statistical analysis and programming for a broad range of medical and public health research projects. Collaborate closely with a cross-functional project team, physicians, lab scientists, and graduate students with regard to statistical aspects of each project. It is expected that most collaborations and projects in this position will be through the Duke Global Health Institute and will involve a range of topic areas including, but not limited to, malaria, maternal and child health, as well global mental health. The Duke Global Health Institute (DGHI), whose mission is to reduce health disparities locally and globally, has 80 faculty from across campus and the School of Medicine. The position includes membership in DGHI’s Research Design and Analysis Core, led by Dr. Liz Turner, faculty member in the Department of Biostatistics and Bioinformatics and DGHI.

Responsibilities

**Collaboration, communication, leadership, and project management**
Collaborate effectively with programmers, statisticians (both junior and senior), medical personnel, and representatives within the Duke and broader research community under the guidance of a supervising Biostatistician investigator.
Represent the functional group in project team meetings and contribute constructively to project discussions.
Develop leadership and communication skills and share them with others.
Serve as a resource for other statisticians.
Adhere to standard operating procedures (SOPs) of the functional department as they apply to documentation and validation of clinical research statistics.
Manage project responsibilities with decreasing levels of supervision or regular support.
Take initiative to complete project-specific responsibilities with minimal supervision.
Demonstrate ability to multi-task and meet deadlines as appropriate.
Build documentation and organizational skills to effectively return to a trial or manuscript project after long intervals during which no progress was made by other members of the project team.

**Statistical analysis planning, generation, and interpretation**
Participate in most statistical aspects of a project.
Evaluate research studies and recommend statistical procedures, including, but not limited to, hypothesis tests, regression models and multivariate analysis to analyze the data.
Contribute meaningfully to discussions of analyses and identify next steps for analyses. Prepare statistical analysis plans under the guidance of faculty or supervising biostatistician. Prepare comprehensive statistical reports to communicate findings with investigators. Be able to work on any phase of a manuscript project, from initial meeting with an investigator to final review of a manuscript prior to submission for publication, with guidance. Prepare statistical components of presentations, abstracts, study protocols, educational materials, and manuscripts. Learn new statistical methods as needed, and apply new skills to future projects. Perform intermediate and advanced statistical analyses, including, but not limited to, generating descriptive and test statistics, and performing regression modelling. Check results for accuracy and consistency.

**Programming and data documentation**

Program analysis datasets using Stata, SAS or R; combine multiple disparate raw databases and derive analysis variables accurately. Design analysis data set specifications through writing own programming code. Demonstrate good programming practices through proper documentation, commenting, and readability. Perform complex programming using advanced options in SAS procedures and macros, and R functions with increasing efficiency. Participate actively in the statistical team responsible for designing and validating analysis data sets, programs, and statistical output products (tables, listings, figures). Perform appropriate and adequate code checks to ensure accuracy of results.

**Education**

Work requires a minimum of a Master's degree in (bio) statistics or related field and no relevant experience, or a bachelor’s degree in (bio) statistics or related field and 2 years relevant experience, or an equivalent combination or relevant education and/or work experience. Master’s degree preferred.

**Experience**

Prior contribution to analysis of research projects and solid command of the English language is required. Desirable experience include experience with observation, survival, longitudinal, categorical, and generalized linear models, experience with global health research and thorough experience with SAS and R, with experience in Stata an additional benefit, but not required.

**To Apply**

Interested applicants must apply directly online at [http://www.hr.duke.edu/jobs/apply/external.php?reqid=102920BR](http://www.hr.duke.edu/jobs/apply/external.php?reqid=102920BR)

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