Recruitment Number: 5067
Job Code: 006257
Job Code Title: RSCH DATA ANL 3
Working Title: Senior Statistician
FLSA: Exempt
Appointment: Career
FTE: 100%
Recruit Type: External
Dept Name: Donald Bren School Of ICS
Location: UCI Campus - Irvine
Schedule: 8-5, M-F
Salary: Monthly $68,000.00 – 86,400.00

Job Summary:
This position is within the Center for Statistical Consulting in the Department of Statistics in the Donald Bren School of Information and Computer Sciences. The Center serves clients from across campus (including the School of Medicine, social sciences, physical sciences, engineering, and biological/health sciences) and businesses in the Orange County area. It provides support for statistical/biostatistical collaborative research, methodology research, and education. Under the direction of the Center’s Director, the incumbent will conceptualize, plan, design, develop and implement statistical models for data analysis. Additionally, he or she will be involved in interpreting, summarizing and communicating results in writing and presenting results in research meetings, consultation, and collaborative research. The position may require designing and teaching short courses on the practice of statistics to diverse audiences. A successful candidate will be familiar with frequentist and Bayesian inference, and can implement a variety of statistical methods (including, but not limited to, survival analysis, generalized linear models, mixed effects models, and machine learning algorithms) for analysis of laboratory studies, clinical trials, and population-based studies. The incumbent is responsible for managing multiple collaborative research projects and associated deadlines.

Job Description:
Job Essential Function 1
Percent of Time: 70%
STATISTICAL PROGRAMMING, DATA ANALYSIS, MODELING, STUDY DESIGN, REPORTING, CONSULTATION

- Conceptualize, plan, design, develop and implement statistical programs for data analysis. Interpret, summarize and communicate results in writing and present results in research meetings, consultation, and collaborative research.
- Perform statistical work using a variety of statistical methods, including analysis of variance, linear models, generalized linear models, generalized linear mixed models, categorical data analysis, longitudinal analysis, survival analysis, multivariate analysis, prediction, and missing data imputation, supervised and unsupervised machine learning, and fixed effects models.
- Organize, manage and thoroughly document statistical analysis with careful consideration to the standards of reproducibility of research.
- Support design and analysis of research studies.
- Assist in study designs (clinical trials and observational studies), including sample size and power analysis.
- Meet with faculty, staff, students and outside clients to provide short-term statistical consultation and longer-term collaboration on research projects and grant submission collaboration.
- Assist with the development of new ideas for statistical analysis methods and implementation software such as SAS, Stata and/or R.
- Provide assistance in the preparation of collaborative research grants, papers, and abstracts and presentations.

Job Essential Function 2
Percent of Time: 15%
CONTRIBUTE TO MANAGEMENT OF THE CONSULTING CENTER

- Attend regular meetings and professional development sessions with the Director of the Center for Statistical Consulting as needed.
- Assist in the day-to-day management of the statistical Unit, including coordination of meetings, project tracking/management and billing and communication/coordination with other Center and Statistics Department administrative staff.
- Work collaboratively with the Center’s Director and team members to maintain database of consulting projects and generation of various Unit reports.

Job Essential Function 3
Percent of Time: 15%

LITERATURE RESEARCH, CONTINUED TRAINING, AND SUPPORT UNIT TEACHING MISSION

- As needed and under the direction of the Center’s Director, research literature relevant to the Center’s projects and statistical research focusing on programming techniques, statistical methods and software implementation for data analysis.
- Keeping current with related literature and attend and present results at professional meetings.
- Support the Center’s teaching mission by contributing to preparation of teaching materials and statistics short courses. (The candidate will have opportunities to co-lead or lead short/mini courses/seminars on statistics for general audiences).

Skills, Knowledge and Abilities:
Required:
- Masters degree with minimum of two years of experience in statistics, biostatistics or related quantitative fields combined with equivalent coursework or experience; or a related field and four years of professional statistical experience; or an equivalent combination of education and experience; and knowledge and abilities essential to the successful performance of the duties assigned to the position.

Preferred:
- PhD degree in statistics, biostatistics or related quantitative fields

Computer skills:
- Highly proficient in SAS, Stata or R. The ideal candidate would be proficient in at least two statistical software programs. Experience in simulation programming a plus. Basic understanding of relational database. Proficient in Microsoft Office (Excel, Word and PowerPoint etc.). Statistical course work and experience: Qualified candidates should have solid working knowledge of theoretical and applied statistics (both frequentist and Bayesian). This should include linear and generalized linear models; linear and generalized linear mixed models; survival analysis; longitudinal and panel data; machine learning; and prediction. Strong foundational training in mathematical statistics and probability. Experience with statistical methods and models common in econometrics and social sciences including fixed effects models, autoregressive models and panel data analysis is a plus. Experience with collaboration/consultation: Given the nature of their positions, statisticians work closely with other scientists. Therefore, regular consultations with faculty, staff and student researchers are expected and thus such demonstrated experience is required. Experience with grant proposal and study design: Experience in study design (including but not limited to sample size, power and precision analysis) and writing of the statistical analysis plan for grant application. Experience with large databases: Experience in managing large datasets and large databases. Demonstrated skills and experiences in both collaborative research and methodology research. Ability to function independently, keep track of multiple projects, work
proactively to meet specific deadlines, and document procedures. Ability to work proactively and manage deadlines and take initiative as needed. Strong interest in ongoing learning and education in an evolving scientific environment. Demonstrated exceptional organizational skills. Demonstrated skill to communicate effectively and professionally with a variety of research personnel and colleagues with varying technical backgrounds, orally and in writing. Professional skills to handle sensitive information. English fluency (reading, writing, speaking). Demonstrated analytical and investigative skills to elicit information needed to clarify inquiries and requests or methods and procedures.

Education:
- Required: Masters degree with minimum of two years of experience in statistics, biostatistics or related quantitative fields combined with equivalent coursework or experience
- Preferred: PhD degree in statistics, biostatistics or related quantitative fields

Please apply via the link below:
https://careersucirvine.ttcportals.com/jobs/4970621-research-data-analyst-iii