Statistician/Data Scientist
BIO5 Institute (9011)
Main Campus

Position Summary

The University of Arizona Statistics Consulting Laboratory, affiliated with the BIO5 Institute and University of Arizona Health Sciences, seeks an experienced statistician or data scientist to collaborate with researchers to tackle complex biology-based problems affecting humanity. The successful candidate will be expected to work collaboratively with University of Arizona investigators on a variety translational, clinical, and population-based research studies. The position is expected to begin on or around February 10, 2020.

As an interdisciplinary research unit, BIO5 reports directly to the Vice President of Research, fosters collaboration with individuals in nine colleges and numerous centers and departments across campus, and interfaces with multiple constituents in Arizona, the nation and internationally. BIO5 is dedicated to stimulating leading-edge interdisciplinary research; to translate the research to real-world application in biology, medicine, and agriculture; to train the next generation of scientists; and to increase science knowledge throughout society.

University of Arizona Health Sciences at the University of Arizona is a network of health-related organizations that had its beginnings on the U Arizona campus in Tucson more than 40 years ago. Arizona's only academic health sciences center, UAHS is based on the campus of the University of Arizona in Tucson and maintains a growing presence on the Phoenix Biomedical Campus in downtown Phoenix. From these vantage points, UAHS reaches across the state of Arizona and well beyond its borders to provide health-care education, research, patient care and service for Arizonans and their neighbors today and in the future.

The primary duties of this position will be to partner with The University of Arizona investigators on a variety of translational, clinical, and population-based research studies to provide data management, statistical expertise, and computing. Activities include assistance with grant proposal development, statistical study design and analysis, interpretation of results, and communicating results to non-statistical researchers. Data management activities include building cohorts from national/international data repositories, integrating multiple data streams to produce structured databases, and building data visualization tools for biomedical end-users. This position requires outstanding oral and written communication skills, self-direction, and the potential to direct activities of assigned support staff. This position also requires strong computing skills with methods of reproducible research and statistical analysis software (e.g., R, knitr, Shiny). Previous experience in statistical consulting is required.

Outstanding UA benefits include health, dental, and vision insurance plans; life insurance and disability programs; paid vacation, sick leave, and holidays; UA/ASU/NAU tuition reduction for the employee and qualified family members; state and optional retirement plans; access to UA recreation and cultural activities; and more!

Duties and Responsibilities

As a member of the Statistics Consulting Laboratory, the incumbent will collaborate with investigators to provide statistical expertise for one or more research projects.

Primary responsibilities of the statistician will be to:

- Collaborate with researchers in the analysis, interpretation, and presentation of research studies. These may include designed experiments, observational studies, clinical trials, population-based epidemiologic studies, and laboratory investigations.
- Adapt and develop novel statistical methods to address emergent problems in support of research projects.
- Combine data from multiple sources, possibly from large repositories (e.g., TCGA or similar) for subsequent analyses.

- Function as part of a statistical team that may include Ph.D. and M.S. statisticians.

Minimum Qualifications

- M.S. in Statistics, Biostatistics, or related field
- Expertise using statistical analysis software
- Experience with design and use of data structures and databases
- Experience with reproducible programming methods (markdown or Jupyter notebooks) in R or python
- One or more years of experience in statistical consulting

Preferred Qualifications

- Two or more years of statistical consulting experience or Ph.D.
- Collaborative experience with biological scientists or physicians.
- Experience designing user interfaces from databases (e.g., REDCap API) and data visualization (e.g., R Shiny and R Dashboard)