Title: Statistical Research Scientist

Purpose: We are seeking a PhD-level Research Scientist in statistics, bioinformatics, genetic epidemiology, or closely related fields to contribute to large-scale genetic and genomic studies in human diseases, with a focus on cancer and hematological traits, in the lab of Dr. Paul Auer. The Research Scientist will be involved in every aspect of the research enterprise, including study design and consultation with basic scientists and clinicians, data management, analysis, and preparation of progress report and manuscripts. This is a highly collaborative role and the Research Scientist would be expected to contribute to multiple projects simultaneously. At first, this role would be under general supervision and advance to a more independent status over time. The ideal candidate will excel at project leadership in a team environment, collaborating with laboratory-based scientists, clinical investigators, biostatisticians, and programmers by serving as: (1) a consultant, providing project-level statistical support and management; and (2) an applied statistical researcher, implementing state-of-the-art methodologies on large-scale genetic and genomic datasets.

About: The Medical College of Wisconsin (MCW) is a private free-standing medical school located in suburban Milwaukee. It has a Graduate School of Biomedical Sciences and offers a Ph.D. in Biostatistics. The Division of Biostatistics, located in the Institute for Health and Equity, has 15 faculty members. They are involved in a number of large collaborative projects including the Center for Advancing Population Sciences, the Center for International Blood and Marrow Transplant Research, and the MCW Cancer Center. The Division also has a Biostatistical Consulting Service which supports research across all disciplines at the College.

Primary Functions:

- Contributing to science through both independent and collaborative research, including co-authoring papers.
- Serving as a statistician on large-scale genetic and genomic studies with responsibilities ranging from designing studies, developing analysis plans, and conducting data analyses.
- Managing multiple large-scale genomic data repositories.
- Communicating results to collaborators and larger scientific audiences at research conferences.
- Leading efforts to apply novel statistical methodologies related to the genetic and genomic epidemiology of cancer.
Minimum Qualifications:

- PhD or equivalent in Statistics, Computer Science, Bioinformatics, Epidemiology or a closely related field.
- Advanced statistical programming skills (e.g., R, Python)
- Excellent interpersonal, oral, and written communication skills.
- Ability and desire to work both independently and in a collaborative environment.
- Strong project management skills, including the ability to manage multiple projects in a fast-paced environment.

Preferred Qualifications:

- Familiarity with a basic programming language (e.g., C, Java)
- Experience with a High Performance Computing cluster.
- Familiarity with standard command line tools and pipelines for genetic and genomic data analysis (e.g., PLINK, kallisto, BEDTools, GENESIS)
- Experience implementing reproducible research, including sharing code and using version control software.
- Basic knowledge of population genetics.
- Basic knowledge of Cancer Epidemiology.

To apply, email a cover letter describing your interest in the position and qualifications, CV, research statement to jward@mcw.edu.