Position Summary

POSITION TITLE: Statistical Research Scientist II in Division of Biostatistics

Purpose
This is a senior-level, non-faculty researcher position that will contribute to fundamental advances in the analysis of large-scale, complex genetic and genomic datasets with a focus on cancer and hematologic traits. The Statistical 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 will be expected to contribute to multiple projects simultaneously.

Primary Functions
- Serve as a statistician on large-scale genetic and genomic studies with responsibilities ranging from designing studies, to developing analysis plans, and conducting sophisticated and cutting-edge data analyses.
- Contribute to science through both independent and collaborative research, including co-authoring papers. Assist in outcome interpretation and composition of the results sections of manuscripts and reports.
- Communicate results to collaborators and larger scientific audiences at research conferences.
- Plan and perform statistical analyses using advanced techniques; determine and review statistical findings with investigators and recommend design modifications.
- Lead efforts to apply novel statistical methodologies related to the genetic and genomic epidemiology of cancer.
- When required, help supervise staff, including programmers and graduate students.
- Regularly review the latest research methodologies in statistical genetics and develop plans for implementation.
- Implement reproducible research standards, including sharing code and using version control software.
- Participate in regular meetings with the principle investigator, research staff, and collaborators.

Knowledge – Skills – Abilities

Knowledge of biology, statistics, and high performance computing. Ability and desire to work both independently and in a collaborative environment. Excellent interpersonal, oral, and written communication skills. Strong project management skills, including the ability to manage multiple projects simultaneously.

Organizational Structure
Building: Medical Education Building
Department: Institute for Health & Equity
Division: Biostatistics
Reports to (Title): Cancer Center Core Director & Professor
Direct Reports (Titles): Cancer Center Core Director & Professor
Specifications
Minimum Required Education:  PhD in Statistics or a closely related field.
Minimum Required Experience:  3 years
Preferred Education:
Preferred Experience:  Advanced statistical programming skills (e.g., R, Python)
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

Field:  Statistics
Certification:  NA

Classification
Grade Name  R17
Full-Time Equivalent  1.0
FLSA Status  Exempt
FLSA Test  Learned Professional
Workweek  Full-time role with expectations for coverage during core business hours and flexibility required as necessary to accommodate business needs.
Job ID  283
Job Name Position  Research Scientist
Category  Research Services (RS)

Job Scope
Complexity – regularly applied judgment to accomplish tasks; develops policies and procedures
Impact – errors may cause moderate to serious damage; accuracy highly important
Autonomy – performs work independently with regular check-ins; supervision available as needed
Communication – occasionally resolves conflicts; adapts communication style to audiences
Responsibility – advises others
Confidentiality – regularly prepares and uses confidential information
Leadership – acts as a role model

Physical Requirements
Work requires occasionally lifting moderate weight materials, standing, or walking continuously.
Risk Potential
Little or no exposure to hazards such as dust, fumes, or extreme temperatures, airborne or blood borne pathogens, extreme temperatures, or allergens.

Sensory Acuity
Ability to detect and translate speech or other communication required. May occasionally require the ability to distinguish colors and perceive relative distances between objects.

Work Environment
Occasional exposure to dust, noise, temperature changes, or contact with water or other liquids. Work is performed in an environmentally controlled environment.

Performance Dimensions

Collegiality
Exhibit confidentiality, honesty, and actions that build trust and strengthen relationships. Listen to others and effectively communicate in a clear and concise manner through written and verbal communication. Demonstrate respect and commitment to the values of diversity and equity; seek out and incorporate diverse perspectives into decision making.

Excellence and Creativity
Exhibit initiative and ingenuity by taking ownership of tasks to proactively improve services, avoid problems, or develop opportunities. Generate novel and valuable ideas to impact institutional missions. Identify and implement new methods to increase efficiency and quality.

Education and Development
Displays an ongoing commitment to continuous learning and self-improvement in one’s area of responsibility. Actively seek out mentorship and learning opportunities that can be applied to current and future work activities. Develop and maintain professional affiliations. Participate in design, development, and/or evaluation of instructional materials, methods, courses, or programs.

Agility and Judgment
Remain flexible and versatile in rapidly changing environment and adapt quickly to changing circumstances. Change behavioral style or method of approach when necessary to achieve a goal. Make timely and sound decisions based on analysis of information, experience, and logic. Show reliability and accountability in the successful completion of all work.

Stewardship and Institutional Citizenship
Support transformational change to achieve institutional vision and strategies. Be an active and thoughtful participant in institutional initiatives, meetings, and committee work. Conserve resources and use in an efficient and cost effective manner across all institutional missions. Look for ways to improve and promote quality within area of influence.
Disclaimers

Background Check
Employment in this position may be contingent upon successfully completing a background and criminal history check, caregiver background check in accordance with the Wisconsin Caregiver Background Check Law, physical examination, and / or driving record check.

Equal Opportunity Employer
The Medical College of Wisconsin is an affirmative action / equal opportunity employer and does not discriminate in hiring or employment on the basis of age, sex, race, color, religion, national origin, veteran status, disability, or sexual orientation.

Diversity and Inclusion
The Medical College of Wisconsin defines diversity as a commitment to recognizing and appreciating the variety of individual differences in an environment that promotes and celebrates individual and collective achievement. The diversity of MCW continues to be an important source of innovative ideas and creative accomplishments.

Confidentiality
Employees that have access to MCW, affiliate, subsidiary, or student data or Protected Health Information (PHI), or research protected information are obligated to protect the confidentiality and proper use and access of this information in order to prevent loss, misuse, unauthorized access, unnecessary identification, or security breaches.

Completeness
This job description is not an employment contract and the Medical College of Wisconsin may modify this document at any time. This document is intended to indicate the types of tasks and levels of skill, effort, and responsibility required by positions assigned this title. This information shall not be construed as a declaration of the specific duties and responsibilities of any particular position. It is not intended to limit or modify the right of any supervisor to assign, direct, and control the work of direct reports. The functions described are not to be interpreted as exclusive or all-inclusive of the various functions performed.

Effective Date:

**To Apply -Please send Cover Letter and Resume to jward@mcw.edu**