THE HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE

Position Description
Postdoctoral Fellow (Full-time)

JOB SUMMARY: A postdoctoral research position is immediately available in the Host Genetics Section at the US Military HIV Research Program (MHRP) located at the Walter Reed Army Research Institute (WRAIR) at Silver Spring, MD. We are currently seeking passionate postdoctoral research fellows interested in analyzing big genomics data and developing computational and statistical methods to analyze the data. The position will focus on understanding how human genetic variation contributes to differences in infectious disease susceptibility and pathogenesis. The incumbent will work on data from next generation sequencing technologies such as RNASeq and whole genome sequencing as well as candidate gene approaches to identify host genes that correlate with HIV resistance, AIDS progression and vaccine efficacy using MHRP cohorts of African and Asian ancestry.

ESSENTIAL JOB DUTIES: 100% of time

Statistical analysis of large-scale whole-genome sequencing and RNASeq data sets to identify the genetic basis of HIV pathogenesis.

Develop statistical/computational methods to better analyze the large-scale genomic data.

We are especially interested in developing statistical approaches for next-generation sequencing technologies.

The candidate will perform other project-specific research as needed, and will be expected to author scientific publications based on research findings.

JOB SPECIFICATIONS:

Required Knowledge, Skills, and Abilities: We are seeking an enthusiastic communicative team player with a PhD in genomics or a relevant scientific discipline. The candidate will have a strong background in statistics with knowledge of statistical tools such as SAS and R and programming skills (Perl, Python). Applicants should have experience in one or more of the following areas: human genetics, statistical genetics, or bioinformatics with the ability to analyze and interpret data. The candidate should have excellent writing and communication skills.
Minimum Education/Training Requirements: Ph.D. with research experience in statistical/human genetics, computational biology, bioinformatics, computer science, or a related field with minimum of 0-4 years experience.

Minimum Experience: 0 to 4 years of experience

Physical Capabilities: n/a

Required Licenses, Certification or Registration: n/a

Supervisory Responsibilities/Controls: n/a

Work Environment: laboratory environment, may require working evenings and weekends

Desirable: experience with molecular biology and genotyping techniques

Any qualifications to be considered as equivalents, in lieu of stated minimums, require the prior approval of the Director of Human Resources

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