Senior Scientist, Applied Statistical Genetics & Genetic Epidemiology  
Quantitative Target Sciences Group  
Human Genetics & Pharmacogenomics Department  
Merck Research Laboratory, Boston

Merck is dedicated to turning causal human genetics and biology into new, differentiated disease modifying therapies to improve the lives of patients across auto-immune, cardio-metabolic and neurodegenerative disease. To fulfill this mission the Quantitative Target Sciences (QTS) group in the Human Genetics and Pharmacogenomics Department (GpGx) is searching for a highly collaborative and inquisitive scientist to join an inter-disciplinary team to transform human disease genetic discoveries into testable therapeutic hypotheses. We are looking for an applied statistical geneticist or applied genetic epidemiologist with extensive experience in analyzing and interpreting human genetic data and its association with complex disease and quantitative phenotypes. The successful candidate will participate in the statistical design and analysis of human genetic studies including common variant association and rare variant association studies. The candidate should have a solid foundation in statistics and genetics, a strong work ethic and the ability to work independently. In addition, the candidate will work with a team of disease experts and biologists to help advance discovery and development programs. This position requires the ability to communicate complex data analysis and results in a clear, concise and appropriate level to biologists, clinicians and senior management. The successful candidate will develop and leverage academic collaborations, public-private partnerships, data from clinical trials and publically available data for the purpose of target identification and validation. This position affords an amazing opportunity to collaborate with scientists from across the organization including biostatistics, epidemiology, chemical-biology, functional genomics, discovery biology and genetics. Join Merck and QTS to harness the power of human genetics to support the development of novel therapeutics.

Education  
Ph.D., 2-5 years post degree experience desired (industry preferred) but all experience levels considered

Qualifications/Skills

- Knowledge of experimental design  
- Subject matter expertise in human disease biology  
- Management and analysis of large genetic studies (n > 10,000)  
- Knowledge of GWAS statistical genetics software (PLINK/MaCH/SHAPE-IT/IMPUTE2/HLA*IMP/METAL/EPACTS/EIGENSOFT/etc.)  
- Statistical programming skills (R/MATLAB/SAS)  
- Programming/Scripting skills (Python/Perl/Shell/etc.)  
- Knowledge of next-generation sequencing statistical analysis (sample/variant QC, association analysis)  
- Knowledge of meta-analysis theory and analysis  
- Knowledge of modern summary statistic analysis (LD-score regression, summary co-localization, etc.)  
- Mendelian Randomization  
- Strong communication and collaboration skills

To apply please visit:  

If you have any questions regarding the position please contact Aaron Day-Williams, PhD (aaron.day-williams@merck.com)