



Postdoctoral Fellowship Program

Bioinformatics or Statistical Genetics

RESEARCH FELLOWSHIPS: Center for Population Studies and Framingham Heart Study, Division of Intramural Research, National Heart, Lung, & Blood Institute, NIH, DHHS.

Three fellowship positions are available in bioinformatics or statistical genetics: Mentored research with NHLBI scientists and bioinformaticians from the Division of Intramural Research in the development/analysis of population-based genetic/genomic research involving (a) genome-wide association study (GWAS) database of over 550,000 SNPs, (b) targeted resequencing of candidate gene regions, (c) whole genome sequencing or sequencing of all exons (the 'exome') in the human genome, or (d) gene expression transcript profiling in up to 8,000 carefully characterized Framingham Heart Study (FHS) participants with tens of thousands of phenotypes for cardiovascular disease and other disorders. Some research opportunities include development of computational methods for genotype-phenotype analysis using high-throughput sequence or expression data, genotype-phenotype analysis of structural variation, and use of systems biology approaches for integrative genomics. Fellows will be located at the Framingham Heart Study in Framingham, MA (working with Drs. O'Donnell, Levy, and Johnson), or the NIH Campus (working with bioinformaticians at the National Library of Medicine, or with Dr. Munson at the NHLBI, Bethesda, MD).

Applicants must have a Ph.D. or M.D. degree with research experience in computational or molecular biology, statistical genetics, or informatics, particularly in the area of genetics and genomics.

Program Leaders:

Christopher J. O'Donnell MD MPH, Daniel Levy MD, Andrew D. Johnson PhD, Peter Munson PhD

To apply, submit CV, cover letter and 3 letters of reference to nhlbi_researchfellowcps-fhs@mail.nih.gov

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Position: Staff Scientist, Genetic and Genomics

Location: Framingham Heart Study, Center for Population Studies, National Heart, Lung, and Blood Institute. The position will be located in Framingham, MA

Responsibilities: Statistical analysis and research using genetic, genomic, and biomarker data from the extensive resources of the Framingham Heart Study.

Description: The Center for Population Studies of the National Heart, Lung, and Blood Institute is recruiting a Staff Scientist with expertise in statistical genetics and/or genomics who will be a member of an investigative team conducting cutting edge research using the extensive phenotypes, and genetic and genomic databases of the Framingham Heart Study. Qualified applicants should have a PhD in statistics, post-doctoral training, and a track record of research productivity, both as an investigator and as a senior statistician in genetic/genomic projects. Experience with analysis of gene expression profiling data and DNA sequence would be helpful.

Resources: Up to 60 years of phenotypic data in three generations of Framingham study participants (n=14,000). 5 billion genotypes (http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/study.cgi?study_id=phs000007.v4.p2). Comprehensive gene expression profiling in 5,000-8,000 participants to begin in 2009. Proteomics/metabolomics to begin in 2009. Access to computing clusters and high end workstation.

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