

## **Postdoctoral Opportunity in Molecular and Genetics Epidemiology**

### **Job description**

One postdoctoral position in molecular and genetic epidemiology is immediately available. The successful candidate will work on projects in molecular epidemiology with special emphasis on the application of emerging genetic and genomic technology for complex human disease and traits, such as breast and skin cancer, reproductive aging, obesity and type 2 diabetes. Ongoing projects include population-based case-control association (genome-wide as well as candidate gene) studies using high density SNP Arrays (Affymetrix and Illumina) and next-generation sequencing technology, and eQTL analysis (linking genotype data and gene expression data) to identify disease susceptibility genes. The candidate will also help develop and implement statistical/computational methods for problems arising from genetic association studies, including, but not limited to, gene-based association analysis, gene-gene, gene-environmental interactions, pathway- and genetic network-based analysis, disease risk prediction using genetic marker data, association analysis for admixed populations, analysis of copy number variations. Projects can be tailored to suit the candidate's research interest and expertise. We offer an excellent team-oriented research environment and opportunities for career advancement.

### **Qualifications**

A suitable candidate should have a PhD or doctoral degree in epidemiology, biostatistics, genetics, molecular biology, bioinformatics, computational biology, computer science or related fields. Ability to work within a UNIX OS and standard statistical software list SAS, S-Plus or SPSS is required (preferably in C/C++, PERL). The successful applicant is expected to have a strong interest in genetic epidemiology of complex disease/traits and have experience in both the application/implementation of established methods for genetic linkage and association studies. Skills in molecular biology techniques in Laboratory such as genomic DNA /total RNA preparation from biosamples, PCR, cloning, methylation experiments, gene functional analysis are highly preferable.

**Please send CV and list of three references to: Chunyan He, Sc.D. E-mail: [chunhe@iupui.edu](mailto:chunhe@iupui.edu) Address: Department of Public Health, Indiana University School of Medicine, 980 West Walnut Street, Indianapolis, IN 46202.**