



**Postdoctoral Positions
in computational regulatory genomics
at
University of Chicago**



Institute for
Genomics &
Systems Biology

Multiple positions are available for highly motivated postdoctoral scholars in the group of Barbara Stranger at The University of Chicago, in the Section of Genetic Medicine, and the Institute of Genomics and Systems Biology. The researcher(s) will be involved in integrative analysis of a variety of types of human genomics data, including protein expression, RNA-Seq, DNA-Seq, SNPs, DNA methylation, etc.

Current research in the lab includes (1) genetic basis of gene regulation, (2) transcriptional network and pathway analysis; (3) comparative and population genomics; (4) functional genomic data integration and data mining; and (5) detection of disease susceptibility genes/networks. Project topics include understanding the role of genetic and epigenetic variation on transcriptional regulation in healthy human cohorts and across a variety of cell-types and tissues, the contribution of that variation to higher order phenotypes including immune-mediated diseases, adverse pregnancy outcomes, and cancer, and the role of sex in shaping disease risk, and elucidation of the evolutionary forces shaping functional variation in humans.

We are funded members of the Analysis working group of the NIH Genome Tissue Expression (GTEx) Consortium, and the lab was recently awarded an 'extended GTEx' grant to investigate the genetic basis of protein expression in GTEx tissues.

MINIMUM QUALIFICATIONS:

- A Ph.D. in bioinformatics, computer science, genomics, population genetics, or other relevant fields of statistical biology.
- Research experience (with strong first-author publications) in computational genomics, molecular evolution, population genetics, or a closely-related field.
- Strong analytical, statistical, quantitative, and computational/programming skills, ideally in C or C++ as well as in scripting languages such as perl, matlab, or R. Should be comfortable with large data sets, distributed computing, and databases.

PREFERRED QUALIFICATIONS:

- Experience in analysis of DNA-seq, RNA-seq, and/or ChIP-seq data, as well as experience constructing complex biological networks.
- Background in genomics or population genetics.
- Candidates with a multidisciplinary background, spanning both life sciences and quantitative sciences are especially encouraged to apply.

To formally apply, please send **both** of the following in **PDF format** to Barbara Stranger (bstranger AT uchicago DOT edu):

1. A curriculum vitae, including names of 3 referees.
2. A statement describing current and future research goals