Statistical Genomics & Genetics

A postdoctoral fellow position in statistical genetics and genomics is now available in the laboratories of Dr. Ralph DeBerardinis at Children’s Research Institute (https://cri.utsw.edu/scientists/ralph-deberardinis-laboratory/) and Dr. Chao Xing at McDermott Center for Human Growth and Development (https://labs.utsouthwestern.edu/bioinformatics-lab) at UT Southwestern Medical Center at Dallas, to study the genetic basis for rare human diseases using genomics and computational approaches.

We employ whole exome and whole genome sequencing to identify pathogenic variants in patients and families. These genomic analyses are integrated with metabolomics and functional experiments performed in the DeBerardinis and Xing labs to validate the significance of genomic variants. We seek highly motivated individuals with strong problem-solving skills to develop, implement and apply innovative approaches for analyzing high throughput genetic and genomic data.

The training activities of this position will include data management, analysis, development and/or implementation of novel analytical approaches and bioinformatics tools for data analysis, implementation of pipelines, interpretation and presentation of analysis results, and writing manuscripts.

Requirements:
Candidates with Ph.D. in statistical genetics and genomics, genetic epidemiology, biostatistics, epidemiology, computational biology, bioinformatics, or biology with advanced sequencing data analysis skills are encouraged to apply.

Information on our postdoctoral training program and benefits can be found in our Postdoc Handbook or at http://www.utsouthwestern.edu/postdocs.

Interested individuals should send a CV, cover letter briefly describing previous research experience, summary of current research interests, and list of three references to:

Ralph DeBerardinis (ralph.deberardinis@utsouthwestern.edu) & Chao Xing (chao.xing@UTSouthwestern.edu)
Computational Biologist I & II

The Bioinformatics Lab of McDermott Center for Human Growth and Development at University of Texas Southwestern Medical Center at Dallas solicits applications for Computational Biologist I & II.

Experience & Education Required
1. Master's or Doctor’s degree in Computer Science, Bioinformatics, Biostatistics, or Statistics.
2. Experienced with Linux.
3. Experienced with scripting languages such as R and Python.
4. Experience with sequencing data preferred.

Position Details
Candidates will work as part of a team in Center's Bioinformatics Lab to maintain and revise reliable high performance next-generation sequencing (NGS) data analysis pipeline systems, to process/analyze data in a reliable and timely fashion. Candidates must have good customer service and communication skills with faculty scientists and sequencing core.

1. Perform professional work in support of scientific research using technical knowledge of software, software development, networking, and/or hardware in a complex computing environment.
2. Perform complex data analysis related to specialized research methodologies and results as assigned.
3. Develop and/or modify software to support new and ongoing research projects.
4. Develop and maintain complex databases to support new and ongoing research projects.
5. Performs other duties as assigned.

Visit us at: https://www.utsouthwestern.edu/labs/bioinformatics-lab/.

Contact: Chao Xing, Ph.D., chao.xing@utsouthwestern.edu

UT Southwestern Medical Center at Dallas is an equal opportunity employer.