Job Posting

Clinical Genomics Science Lead

Georgetown University

Job Title: Clinical Genomics Science Lead

Department: Biomedical Informatics Department, Georgetown University

Date Posted: November 1, 2012

Overview:

This is a new faculty level position within the Innovation Center for Biomedical Informatics at Georgetown University Medical Center. The Clinical Genomics Science (CGS) Lead will be responsible for providing scientific leadership and direction on an exciting portfolio of large clinical genomics projects involving translational research and pharmacogenomics. The CGS Lead will work with a multi-disciplinary team of bioinformatics scientists and analysts, software engineers, genomic scientists, and clinicians to analyze a variety of molecular data types (e.g. gene expression, RNAseq, NGS, microRNA, CNV, etc.) in the context of clinical information. A primary task is to help the team to build and/or leverage existing translational genomics tools, data analysis pipelines, and workflows to process and help analyze large volumes of data being generated for several important clinical areas, including cancer, muscular dystrophy, neurological disorders, and even preterm birth.

The CGS Lead is an excellent opportunity for an individual who would enjoy both the analysis of high-throughput molecular data and its application to clinical research problems, with a growing emphasis on how to effectively reduce data to a small number of meaningful elements that can be presented in a way that is useful to a clinician. We are looking for someone who is enthusiastic, enjoys new challenges, and a good team player to work with a dynamic group of individuals.

Requirements:

Education: Ph.D. and/or M.D. or equivalent experience in the life sciences (e.g. Human Genomics, Molecular Biology, Biochemistry, Pharmacology) or Computational Biology/ Bioinformatics.

Experience:

- Highly motivated scientist and independent thinker with five plus (post-graduate) years of experience in a clinical or basic research setting in the analysis of genomics data (e.g. next gen sequencing, gene and miRNA expression, metabolomics, pathway modeling etc.) and bioinformatics experience.
- Strong computational biology/bioinformatics background with knowledge of familial genetics, human genomics, Trio analysis, SNP analysis, GWAS, etc.
- Experience in working with high throughput genomics data from multiple sources.
- Clinical trial experience is highly desirable. An understanding of disease biology at the molecular level is key.
- Statistical genetics experience is a plus.
- Experience in applying NGS technologies to discoveries in cancer genomics and familial diseases is strongly desired.
- Knowledge and/or experience in Internal Review Board (IRB) processes is desired.
- Demonstrated ability to drive scientific research and troubleshoot problem areas
- Adept at coming up with new ideas and solutions and to adapt to new technologies and changing priorities.
- Lead and collaborate on grant applications and peer-reviewed manuscripts.
- Excellent oral and written communications skills necessary.
- Mentoring and training of students and research associates will be required.

Interested candidates should send their CV/resume to Subha Madhavan (sm696@georgetown.edu).