



Postdoctoral Scientist – Genomics (Job Id 5916)

A postdoctoral position is available immediately in the research group of Dr. Peter White at the Research Institute at Nationwide Children's Hospital. We are performing cutting edge genomics research in human genetics and genomic medicine, by combining state of the art genomic sequencing technologies with bioinformatics techniques to develop computational tools and analytical pipelines to identify genetic variants relevant to human health and disease. We are looking for candidates with an interest to work in either of these areas:

Big Data and Human Genetics: Research, development and evaluation of novel Big Data Analytic approaches to manage, analyze, interpret population scale genomic datasets using tools such as Map-Reduce, Hadoop, HBase and Google BigQuery using both local HPC resources and Cloud computing technologies.

Statistical Genetics: Develop data mining and machine learning techniques to predict associations between genomic signatures and disease. Perform statistical genetic analysis using next generation sequencing whole exome and whole genome data sets in both family studies and case/control cohorts.

This is an exciting opportunity for a recent PhD graduate with a desire to pursue a career in Bioinformatics / Computational Biology / Big Data Analytics in a clinical research setting. Excellent verbal and written communication skills will be essential as the individual will work collaboratively with biologists and clinicians on projects that lead to publications and presentations at professional meetings.

Desired Qualifications

- PhD degree in Bioinformatics, Computer Science or related field
- Experience with UNIX/LINUX, including shell scripting
- Core Java software development skills
- Hadoop software ecosystem experience/knowledge
- Proficiency in a scripting language, such as Perl or Python
- Knowledge of core bioinformatics tools and databases

Interested candidates should submit a cover letter, CV, and 3 references to Melissa Loveless melissa.loveless@nationwidechildrens.org.

Nationwide Children's Hospital is the fifth largest free-standing children's hospital in the United States. The Research Institute is housed in a modern 320,000 square foot, dedicated research facility with outstanding shared facilities. The Research Institute's mission is to enhance the health of children by engaging in high-quality, cutting-edge research according to the highest scientific and ethical standards. The work we do every day is dedicated to improving the health of children and their families in central Ohio and beyond. Faculty members belong to academic departments at The Ohio State University College of Medicine, with whom we enjoy strong and collegial collaborative relationships. The Research Institute at Nationwide Children's is one of the fastest growing pediatric research centers in the United States. Among free-standing children's hospitals, Nationwide Children's currently ranks in the top ten based on NIH funding. Nationwide Children's Hospital is an equal opportunity employer that values diversity. Candidates of diverse backgrounds are encouraged to apply.