Senior Bioinformatics Scientist / Senior Systems Programmer

The Senior Bioinformatics Scientist in the Biomedical Genomics Core (http://genomics.nchresearch.org/) at The Research Institute at Nationwide Children's Hospital will be responsible for working with informatics and scientific personnel to analyze and interpret genomic data sets. We are performing cutting edge genomics research in the areas of human genetics and transcriptional regulation using next-generation sequencing combined with cutting-edge computational approaches. 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.

Responsibilities
- Perform next generation sequencing downstream analysis and visualization
- Research, development and evaluation of novel high performance computational approaches for next generation sequencing analysis
- Evaluating and integrating community-developed bioinformatics tools
- Take a lead role in our research collaborations to analyze genome sequencing data in order to identify the genetic causes of complex human diseases
- Assist with supervision and training of junior bioinformatics scientists and systems programmers
- Author journal publications and present at professional meetings

Minimum Qualifications
- Advanced degree in Bioinformatics, Biostatistics or Computational Biology
- Five + years experience in computational biology or bioinformatics
- Experience with UNIX/LINUX, including proficiency in shell scripting
- Proficiency in a scripting language, such as Perl or Python
- Expert knowledge of core bioinformatics tools and databases
- Exceptionally deep computational understanding and strong programming skills
- Excellent verbal and written communication skills will be essential

Additional Qualifications
- Previous experience NGS data analysis highly desirable
- Knowledge of multiple threading and multi-core processing
- Knowledge of statistical/mathematical packages such as R
- Experience in the application of statistics and machine learning techniques to computational biology
- Experience in algorithm generation and/or computational methods implementation
- Capable of self-directed research within broader goals set by group

Interested candidates should submit a cover letter, CV, and 3 references to Pat Black pat.black@nationwidechildrens.org. For more information or to apply on line visit: www.NationwideChildrens.org. Nationwide Children's Hospital is an equal opportunity employer that values diversity. Candidates of diverse backgrounds are encouraged to apply

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. In 2009, federal grant awards exceeded $25 million, ranking The Research Institute among the top ten free-standing children's hospitals in NIH funding. Nationwide Children's Hospital is an equal opportunity employer that values diversity. Candidates of diverse backgrounds are encouraged to apply.