

## **Bioinformatics Scientist**

The Bioinformatics Scientist in the Biomedical Genomics Core (<http://genomics.nchresearch.org/>) at The Research Institute at Nationwide Children's Hospital will assist with data management, computational analysis and interpretation of large genomic data sets. We are performing cutting edge genomics research using both DNA microarray based technologies and next-generation sequencing with the state-of-the art Illumina HiSeq 2000 instrument. Independent research will focus on the analysis of genomic data generated as part of our research efforts into understanding the mechanisms and treatment of childhood cancer.

### ***Responsibilities***

- Perform microarray analysis and execute core facility data analysis pipelines
- Assist in all aspects of next generation sequencing primary analysis, data transfer and analysis pipelines, and downstream analysis and visualization
- Work with standard bioinformatics analysis packages such as Partek, Agilent eArray, DNA Analytics, Genespring and Ingenuity Pathway Analysis
- Develop and implement laboratory data information management systems
- Evaluating and integrating community-developed bioinformatics tools
- Collaborate with investigators in the Pediatric Preclinical Testing Program (PPTP), a comprehensive program to systematically evaluate new agents against childhood solid tumor and leukemia models (<http://pptp.nchresearch.org/>)
- Assist in preparation of scientific journal publications and present at professional meetings

### ***Minimum Qualifications***

- Advanced degree in Bioinformatics, Biostatistics or Computational Biology
- Experience with UNIX/LINUX, including shell scripting
- Proficiency in a scripting language, such as Perl or Python
- Knowledge of core bioinformatics tools and databases used in DNA sequence and gene expression data analysis
- Basic knowledge of statistics, algorithms, data structures and scientific programming
- Experience with R or other environments for statistical computing desired

### ***Additional Qualifications***

- 2 years relevant work experience, in computational biology or bioinformatics desired
- Some experience with a modern high-performance programming language such as C/C++
- Experience with relational databases and SQL programming
- Good to moderate programming skills
- Ability to manage multiple projects in a dynamic environment with changing priorities

Please submit your application online at:

[http://www.healthcaresource.com/columbus/index.cfm?fuseaction=search.jobDetails&template=dsp\\_job\\_details.cfm&cJobId=452585](http://www.healthcaresource.com/columbus/index.cfm?fuseaction=search.jobDetails&template=dsp_job_details.cfm&cJobId=452585)

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.