

Systems Programmer / Computer Scientist

The System Programmer position in the Biomedical Genomics Core (<http://genomics.nchresearch.org/>) at The Research Institute at Nationwide Children's Hospital will be responsible for assisting in the development and implementation of software and hardware systems to support our expanding efforts in cutting edge genetics research. You will assist in all aspects of next-generation sequencing analysis, using extremely large data sets generated by our state-of-the art Illumina HiSeq-2000 DNA sequencer, including data transfer pipelines, analysis pipelines and downstream analysis. You do not need to have a biological background for this position. We are looking for a candidate with exceptionally deep computational understanding and abilities, who enjoys solving complex problems.

Responsibilities

- Development and implementation of different modules of software pipelines for next-generation sequencing analysis
- Working with informatics and supercomputing support staff to optimize hardware systems
- Designing and developing in-house bioinformatics tools
- Evaluating and integrating community-developed bioinformatics tools
- Work with biologists and bioinformatics scientists to create custom applications or data parsing tools to identify and extract relevant biological information.

Qualifications

- Advanced degree in math or computer science, or comparable research experience.
- Strong Linux/Unix systems programming and shell scripting experience
- Proficiency in scripting languages (Perl or Python)
- 2+ years experience with a modern high-performance programming language such as C/C++
- Must have strong mathematical and abstract thinking skills, and hands-on ability to turn ideas into code
- Basic knowledge of statistics
- Basic knowledge of algorithms, data structures and scientific programming
- Experience in computational biology or bioinformatics a plus but not required
- Interest in molecular biology and genetics, and willingness to learn concepts and terminology from these fields as needed
- 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=796877

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.