

Pathology Faculty Position in Bioinformatics

This faculty position will hold an appointment in the Department of Pathology. This position is a full-time appointment on a non-tenure track at a rank of Assistant or Associate Professor. The successful candidate will work collaboratively to supervise and ensure the appropriate design, validation, and documentation of the data analytic and bioinformatic infrastructure required for laboratory testing performed under the Precision Medicine program at the Ann & Robert H. Lurie Children's Hospital of Chicago (LCH). This includes providing technical expertise in the selection, validation, and implementation of the appropriate internal and external data analytic and bioinformatic solutions needed to analyze specimens, process and integrate data, and perform analysis and visualization. This individual will also conduct collaborative research in projects involving integrative analyses of high throughput data of various types, including genomics, pharmacogenomics, proteomics, and metabolomics. Further research opportunities exist in projects involving data mining, analysis, and visualization of large-scale integrated data sets from 'omic' and clinical sources. The successful candidate will promote the development of interdisciplinary bioinformatics research in the translational and clinical settings, benefitting from interactions with the robust bioinformatics and advanced analytics communities at LCH. Start date is negotiable. Position will remain open until filled.

EDUCATION AND EXPERIENCE

Candidates must have an MD, MD PhD, or PhD in Applied Mathematics, Computational Biology, Biomedical Informatics, Data Science, Bioinformatics, Bioengineering, Genomics, Biostatistics, Electrical Engineering, Computer Science, or a closely related discipline. Candidate must have a minimum of one year of post-doctoral research or equivalent experience in an academic or clinical setting. Preference will be given to candidates with a 2-year post doctoral experience in bioinformatics and next-generation sequencing data analysis.

KNOWLEDGE, SKILLS, AND ABILITIES

A successful candidate is expected to have broad experience in computational bioinformatics involving high throughput datasets, data mining and machine learning skills, and proficiency in R, MATLAB, or Perl/Python programming in a Linux and Windows environment, experience with AWS cloud infrastructure and Nextflow orchestration software, and Docker and Git/GitHub for version control. Scientific achievement should be demonstrated by research accomplishments and journal publications. Candidate shall demonstrate excellent communication skills, the ability to perform self-directed bioinformatics research, and to develop successful collaborations. Strong preference will be given to candidates who have led teams in the building and implementation of bioinformatic solutions in clinical settings. Salary is commensurate with experience.

HOW TO APPLY

Applicants should apply online via the Northwestern University Faculty Recruitment System **and** via email or mail to Dr. Shannon Haymond, Vice Chair Computational Pathology, Ann & Robert H. Lurie Children's Hospital of Chicago, 225 E. Chicago Ave. #8-426; shaymond@luriechildrens.org. Candidates should submit a curriculum vitae and a letter describing their background, research interests, and relevant experience.

Northwestern University is an Equal Opportunity, Affirmative Action Employer of all protected classes, including veterans and individuals with disabilities. Women, racial and ethnic minorities, individuals with disabilities, and veterans are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.