

**Institution/Company:** Ontario Cancer Institute/University Health Network

**Location:** Toronto, ON

**Job Title:** Research Associate or Postdoctoral Fellow

**Job Description:**

The Program of Integrated Molecular Pathology of Targeted Cancer Therapy in Lung Cancer at the Ontario Cancer Institute is seeking a motivated applicant with strong computational and analytical skills to analyze, interpret and integrate genomics data. We are generating genome-wide data on a large resource of patient-derived tumour xenografts using complimentary platforms that include exome sequencing, CNV, methylation, transcript, and proteomics profiling. The aims are to identify the critical molecular aberrations that define the functional pathways active in the major subtypes of non-small-cell lung cancer (NSCLC). The end results are to provide the most comprehensive understanding of signaling pathways and molecular typing in NSCLC, which would allow the best rational approach for developing targeted therapies, prognostic and predictive markers for lung cancer patients.

**Qualifications:**

- Ph.D. or BSc/MSc (with significant experience) in bioinformatics, computer science or molecular genetics (with programming skills).
- Strong programming experience in a variety of languages/platforms, e.g., R, JAVA, PERL, BIOPERL, C++, Python, SQL).
- Thorough knowledge of publically available genomic/biological data mining resources (e.g., UCSC, NCBI, Ensembl, Gene Ontology, KEGG, Reactome).
- Experience with large scale genomic analyses (e.g., next generation sequencing analysis, copy number analysis).
- Knowledge of statistics and statistical programming languages (e.g., R, SAS, Matlab).
- Good knowledge in cancer biology.
- Strong leadership skills and a committed team-player. The candidate must have a strong interest to work within a large, dynamic and interdisciplinary research team. The successful applicant will collaborate with experimental biologists to interpret and functionally validate the results. Contributions to scientific publications are expected.

There will be ample opportunity for professional development. Salary will commensurate with experience. We invite you to apply by sending your CV and the names of 3 references to [npham@uhnres.utoronto.ca](mailto:npham@uhnres.utoronto.ca). We thank all applicants, however, only those under consideration will be contacted.