Institution/Company:  Princess Margaret Cancer Centre

Institute Location:  Toronto, Ontario

Job Description:  Research Associate

We are seeking a Research Associate in systems biology (full time, temporary position) to join a multi-disciplinary team in the Jurisica lab (http://www.cs.utoronto.ca/~juris). The successful candidate is expected to extend and apply data mining methods to integrative analysis of genomic and proteomic high-throughput data related to cancer research, and to validate at the molecular level hypotheses computationally identified. Salary range will be $55,965-$69,961.

RESPONSIBILITIES

The position entails working within an informatics team extending and applying software to directly facilitate a cutting edge cancer research. This work involves continually learning and establishing new technologies, as well as applying these skills to develop innovative theories to solve specific challenges in cancer systems biology.

The successful candidate will apply data mining methods in an interdisciplinary and highly collaborative environment, contribute to extending our existing tools (e.g., NAViGaTOR – http://ophid.utoronto.ca/navigator and I2D – http://ophid.utoronto.ca/i2d), and perform validation experiments in collaboration with clinical groups. The work will require comprehensive integration and annotation of results, systems modeling using protein-protein interaction and pathway data, identification and prioritization of hypotheses for validation, planning of appropriate experiments and their execution, and result interpretation.

ENVIRONMENT

Our computing infrastructure comprises five IBM pSeries servers, and large Linux and GPU clusters. A biology lab for high-throughput validation has been recently expanded to include high-content imaging and robotic system for automation.

QUALIFICATIONS

• An advanced degree in computational biology, bioinformatics or molecular biology is required.
• Working bioinformatics experience is essential.
• Understanding of biological data and methods is essential.
• Previous experience in molecular biology is advantageous.
• Practical experience with clinical samples processing is beneficial.
• Good communication skills and the ability to work with an interdisciplinary team are essential.

Please forward current curriculum vitae including a publication list and names of three references to: juris@ai.utoronto.ca