

POSITION SUMMARY

QUEEN'S UNIVERSITY – Postdoctoral Fellow

POSITION TITLE: Post-Doctoral Fellow in Cognitive Analytics for Molecular Oncology
DEPARTMENT: Pathology and Molecular Medicine/Center for Advanced Computing
RENUMERATION: \$57,732/yr. EFFECTIVE DATE: Spring 2017
POSTING DATE: April 11, 2017 DURATION: 2 years
SUPERVISOR: Dr. Harriet Feilotter, Dept of Path and Mol Med

JOB SUMMARY:

The successful Post-Doctoral Fellow (PDF) in Cognitive Analytics Development will work within the Cognitive Analytics Development Hub (part of the Centre for Advanced Computing) under the guidance of Dr. H. Feilotter in the Department of Pathology and Molecular Medicine. Over the course of a 2-year postdoc fellowship, they will collaborate with an extended team that will include academic researchers and industrial partners to design, develop and troubleshoot a cognitive application that is focused on adding value to an existing knowledgebase for molecular oncology. They will be expected to analyze system requirements and develop a cognitive (a.k.a. IBM Watson) proof-of-concept (POC) application. The project will involve an industrial partner who ultimately may choose to develop a full-scale implementation of the POC.

KEY RESPONSIBILITIES:

- Work with university research teams and their industrial partners to determine application requirements and translate into actionable work plans.
- Participate in application design meetings, preparing requirements and design specifications.
- Design, code, test and debug a POC using IBM Watson technologies and related analytics tools.
- Assist in establishing project schedules, and ensure assigned projects stay on schedule.
- Report on project status at regular meetings and when requested by management.
- Work with members of the IBM Watson team to optimize the POC.
- Depending on evolving organizational requirements, other duties may be assigned.

REQUIRED QUALIFICATIONS:

- PhD in computing science and/or analytics, or equivalent areas of concentration.
- Relevant experience working with cognitive computing and/or analytics applications.
- Demonstrated proficiency in the development, implementation and maintenance of cloud-based applications.
- Must pass a criminal background check (CPIC).
- Must be fluent in English.
- Must have excellent communication and presentation skills.

SPECIAL SKILLS:

- Demonstrated deep analytical skills.

- Familiarity with IBM’s Watson cognitive technologies is an asset.
- Artificial intelligence, expert systems, machine learning and other natural language processing tool experience.
- Experience with cloud and virtualization technologies, networking and Linux.
- Knowledge of system availability, scalability, resilience, and security.
- Thorough knowledge of programming techniques and languages such as Python, Java, RESTful applications, SQL, JavaScript, Perl, HTML, Hadoop, and SPARK.
- Highly developed interpersonal skills to deal with both technical and non-technical members of the project team, researchers, industrial partners, and technology providers.
- Constant attention to detail.
- Desire to enable “research excellence”.

DECISION MAKING:

- Determine how best to meet the client’s research and/or business requirements.
- Determine appropriate problem-solving procedures and decide how to best rectify the problem. Decide when others need to be engaged to resolve issues.
- Allocate time, prioritize tasks and determine work flow. Continually assess and adjust priorities and manage tasks in a fast-paced and demanding environment.
- Evaluate and make recommendations such as the acquisition and/or adoption of new cognitive tools.

PROJECT MANAGEMENT:

- Prepare requirements and develop a project schedule.
- Track project schedule and report on progress.
- Coordinate diverse teams to meet scheduled objectives.

RESEARCH ASSESSMENT QUESTIONS:

(must be completed)

	YES	NO
1. Is this position technical in nature in a teaching or research lab or lab-related area?	X	<input type="checkbox"/>
2. Does this position support a research project? If yes, indicate name of the project: Generating an Ontario-wide platform for complex Next generation sequencing data	X	<input type="checkbox"/>
3. Does this position report directly to a Principal Investigator (PI)? If yes, indicate name of the PI: Harriet Feilotter	X	<input type="checkbox"/>

Accommodation in the Workplace: The University has policies in place to support its employees with disabilities, including an Accommodation in the Workplace Policy and a policy on the provision of job accommodations that take into account an employee's accessibility needs due to disability. The University will provide support in its recruitment processes to applicants with disabilities, including accommodation that takes into account an applicant's accessibility needs. If you require accommodation during the interview process, please contact **Harriet Feilotter, Associate Professor, Dept of Pathology and Molecular Medicine, hf4@queensu.ca or 613 533 2932.**

SIGNATURES:

Date

Incumbent

Manager

Department Head/Director or Designate

Anticipated Start Date: July 1, 2017

Duration of Appointment: Two years

Required Documentation: Cover letter and CV, along with names of 3 references

Closing Date: May 1 2017

Apply by email to:

Dr. Harriet Feilotter, PhD, FCCMG hf4@queensu.ca

EMPLOYMENT EQUITY: The University invites applications from all qualified candidates. Queen's is committed to employment equity and diversity in the workplace and welcomes applications from women, visible minorities, Aboriginal peoples, persons with disabilities, and persons of any sexual orientation or gender identity.

cc. PSAC Local 901, Unit 2 - info@psac901.org