

AVAILABLE POSITIONS:

Posting Date: June 1, 2021

Job Title: Post-Doctoral Fellow

Department: Medicine

**Description of Area
or Topic of
Research:**

Optimization of Computer Assisted Arrhythmia Intervention

The focus of this collaborative research program is to further develop code written to process electrograms collected during mapping of the human heart during atrial fibrillation (AF) and develop a tool that allows the surgeon to understand and treat the arrhythmia more effectively. The broad goal is to better inform surgeons by use of integrated computer signal analysis and improve the health and surgical outcomes for cardiac patients.

The successful candidate will take a lead role in collection and analysis of AF signals with further integration of the algorithm into real time patient data. The candidate will also be expected to contribute to the supervision of graduate and undergraduate students and the administration of the CASA research lab, including grant proposal preparation.

Reporting to the Principal Investigator, the incumbent designs, tests, and implements experimental protocols under guidance. The incumbent conducts procedures and observes and records results and uses independent judgement to adapt procedures as the need arises. The Incumbent may also participate in experiment design and optimization. The incumbent maintains developed code, prepares and organizes data sets, and performs other maintenance duties. May work with hazardous materials (x-ray environment), animals or equipment. Responsibilities include analysis of results and preparation of written and/or verbal reports. The incumbent supervises and coordinates staff, ensures compliance with safety and ethical guidelines, liaises and communicates with other staff, labs, or outside agencies. The incumbent may participate in other special projects as required.

**Supervision and
Academic Unit:**

Principal Investigator – Dr. Damian Redfearn
Cardiac Arrhythmia Signals Analysis (CASA) Lab
Division of Cardiology, Department of Medicine

Remuneration: \$42,500 per annum

Start Date and Duration of Appointment: July 1, 2021 – 3 years

Required Qualifications: PhD within previous 3 years in field related to signal processing. Experience with biological signals or clinical experience an asset. Familiarity and expertise with MATLAB is an asset. Consideration will be given to an equivalent combination of education and experience.

Required Documentation: Letter of interest, CV and the names and contact information of three references

Application Deadline: June 18, 2021

Application Procedure: Please forward complete applications via email to Dr. Damian Redfearn at damian.redfearn@kingstonhsc.ca

EMPLOYMENT EQUITY: The University invites applications from all qualified individuals. Queen's is strongly committed to employment equity, diversity, and inclusion in the workplace and encourages applications from Black, racialized/visible minority and Indigenous/Aboriginal people, women, persons with disabilities, and 2SLGBTQ+ persons.

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 **Damian Redfearn** at damian.redfearn@kingstonhsc.ca 613-533-2148.

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