

A three-year post-doctoral associate position is available immediately under the supervision of Dr. Ting-Yim Lee at the Robarts Research Institute, Schulich School of Medicine & Dentistry, The University of Western Ontario. This position is funded by discretionary funds derived from CT Perfusion software royalties directed to Dr. Lee's Lab.

The successful candidate will be involved in a project developing theragnostic applications to cancer using positron emission tomography (PET). The successful candidate will participate in developing: (a) quantitative analysis of dynamic PET imaging studies to predict the accumulation of radiolabeled cancer targeting probes over time (or radioactivity distribution); (2) adaptations to existing Monte Carlo algorithms of radiation transport to calculate radiation dose from the predicted radioactivity distribution. Dr. Lee's Lab has already implemented the EGSnrc Monte Carlo algorithm from the National Research Council of Canada via a collaboration with Dr. Rowan Thomson of the Laboratory for Radiotherapy Physics, Department of Physics, Carleton University. The successful candidate will join a research team of medical physicists, radiation and medical oncologists, nuclear medicine MD specialists, and graduate students.

The preferred candidate will have:

- A Ph.D. degree in medical, nuclear or particle physics
- Experience with programming (MATLAB, c/c++ or Python)
- Experience with statistical analysis (SPSS, SAS or R)
- Experience in developing numerical analysis algorithms
- Experience with management of large programming projects
- Evidence of experience in preparation and publication of manuscripts
- Excellent oral communication and technical writing skills
- Demonstrated collegiality, professionalism and interpersonal skills

Additional desired assets include:

- Experience working in a Linux terminal environment
- Experience with managing github repositories
- Experience in Monte Carlo simulations and statistical analysis

Salary within the range of \$40k - \$50k per year commensurate with experience. Application deadline is October 1, 2021; however, applications will be accepted until a suitable candidate is selected. Please send a letter of application including a one-page description of research experience and interests, updated curriculum vitae, and names and contact information of three references to Anne Leist: aleaist@robarts.ca with the subject line "Postdoctoral application".

Please visit the Postdoctoral Associate Benefits webpage for information:
https://www.uwo.ca/hr/benefits/your_benefits/pda/index.html.

We invite applications from all qualified individuals. Western is committed to employment equity and diversity in the workplace and welcomes applications from women, members of racialized groups/visible minorities, Aboriginal persons, persons with disabilities, persons of any sexual orientation, and persons of any gender identity or gender expression. Accommodations are available for applicants with disabilities throughout the recruitment process.