

June 2022

## POST-DOCTORAL FELLOWSHIP

The Optical Cancer Imaging Lab ([OCIL](#)) at the BC Cancer Research Institute ([BCCRI](#)) in Vancouver, Canada, has an opening for a Post-Doctoral Fellow. The OCIL develops and validates non-invasive high-resolution optical tools for the early detection and management of cancer. Our research includes all aspects of optical imaging and spectroscopy for the *in vivo*, *ex vivo*, and *in silico* evaluation of tissues from sites including lung, cervix, oral cavity, skin and colon. Further information is available online (<http://www.biophotonics.bccrc.ca>).

We are seeking a qualified individual to lead a funded research project to develop image-guided biopsy tools for the lung. Primary responsibilities include design, development, and validation of catheters for image-guided biopsy; development of combined OCT and fluorescence systems; *ex vivo* and *in vivo* studies; pilot study design and execution; and the publication of scientific results at international conferences and in peer-reviewed journals. The successful candidate will join an interdisciplinary research group including biomedical engineers, imaging scientists, and clinicians.

### QUALIFICATIONS:

The ideal candidate will have a Ph.D. in biomedical/electrical/mechanical/optical engineering, biological or physical sciences, or a related field. The candidate should have hands-on experience in OCT, *in vivo* microscopy, or medical imaging, and a solid understanding of at least two of the following: biomedical optics, fiber-optics, dual-clad fibers and/or photonic crystal fibers, micro-optics, image processing, catheter fabrication. Familiarity with MATLAB and C/C++ language programming is desirable. Excellent communication skills and proficient English language skills are required.

The candidate will work in a multidisciplinary team of physicians, cancer biologists, chemists, and optical engineers. The successful candidate will be expected to work effectively and independently while assisting MSc and PhD candidates in our laboratory. This position offers significant opportunity for interaction in a multidisciplinary environment at the interface between biomedical optics and clinical practice. Preference will be given to applicants with a proven track record in biomedical research and candidates should have more than a casual interest in publishing.

This is a one-year term position, with the possibility of extension for a second year, based on performance and funding sources.

The BC Cancer Research Institute ([BCCRI](#)), home to the OCIL, is located midway between the University of British Columbia ([UBC](#)) and Simon Fraser University ([SFU](#)). [BC Cancer](#) provides comprehensive cancer control for the people of British Columbia. BC Cancer is part of the Provincial Health Services Authority (PHSA).

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

***As per the current Public Health Order, full vaccination against COVID-19 is a condition of employment with PHSA as of October 26, 2021.***

Interested candidates should forward a cover letter that expresses their research interests, curriculum vitae, and two references to Rebecca White ([rebecca.white@bccrc.ca](mailto:rebecca.white@bccrc.ca)) with “OCT PDF” in the subject line.