

December 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 qualified individuals to pursue mutually beneficial projects related to the current research program at the OCIL. There are several research projects of interest, including but not limited to, development of OCT systems for endoscopic imaging in the 800nm band, time-resolved fluorescence imaging, and multimodal endoscopic imaging. The successful candidate will join an interdisciplinary research group including engineers, imaging scientists, and clinicians.

QUALIFICATIONS:

The ideal candidate will have a Ph.D. in biomedical/electrical/mechanical/optical engineering, or physical sciences, or a related field. The candidate should have practical experience with 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 development. 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.

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) with “OCT PDF 2023” in the subject line.