



## POSTDOCTORAL POSITION IN NEUROPHOTONICS

### Campbell Laboratory ([campbellweb.chem.ualberta.ca](http://campbellweb.chem.ualberta.ca))

A postdoctoral researcher position focussed on the development of a new generation of genetically encoded neural activity indicators is available in the lab of Dr. Robert E. Campbell at the University of Alberta, Edmonton, Alberta, Canada. This position is funded by an NIH grant awarded as part of the United States Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative.

One of the major challenges facing the BRAIN initiative is the development of technologies that will enable the recording of neural activity throughout the entire volume of a rodent brain. Optical imaging approaches for recording of neural activity in model organisms have already proven to be highly effective, but are generally limited to imaging of activity near the brain surface. To record from deeper within the brain, we require neural activity indicators based on proteins that absorb and emit near-infrared light (or acoustic signals), which pass further through tissue. The successful applicant will build upon promising preliminary efforts and undertake the development, characterization, and application of genetically encoded activity indicators optimized for both fluorescence and photoacoustic imaging.

An ideal candidate will be highly motivated, creative, and able to work effectively as a member of a collaborative team. Extensive expertise and proficiency in molecular biology is essential. Preference will be given to applicants with past experience in neuroscience and fluorescence microscopy who have received their Ph.D. within the past 2 years. The initial appointment will be for one year, with the possibility of being extended for 1-2 additional years, depending on funding. Salary will be commensurate with experience. Position will be open until filled.

Interested applicants should forward a cover letter, CV, and contact information for three references to:

Robert E. Campbell, Ph.D.  
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Edmonton, Alberta  
T6G 2G2 Canada

Email: [rc4@ualberta.ca](mailto:rc4@ualberta.ca)  
Phone: (780) 492-1849

**We thank all applicants for their interest; however, only those individuals selected for an interview will be contacted.**

*The University of Alberta offers appointments on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities and Aboriginal persons.*