Postdoctoral Opportunity

Optics: Endoscopic Optical Coherence Tomography (OCT)

Backman Laboratory

Our laboratory is a pioneer in the development of novel super-resolution imaging and nano-sensing techniques, and currently has an optics-related openings for postdoctoral fellow. This position is focused on developing endoscopic optical coherence tomography (OCT) technologies to quantitatively study changes to microvascular function and tissue nanoscale organization in response to disease progression. Candidates must have experience in optical imaging device development, fiber optics, spectroscopy, and Matlab or Python. Strong preference will be given to candidates with postdoctoral training and/or experience with optical coherence tomography, endoscopic imaging, broadband light sources, fiber optic splicing, machine learning techniques, and modeling of optical systems (Zemax). Demonstrated creativity through patents and novel high impact publications is also a plus.

Candidates must have a Ph.D. in biomedical engineering, electrical engineering, medical physics, or a related field. The successful candidates are expected to possess excellent written and oral communication skills in English, a good publication record in peer-reviewed journals, and be highly motivated and with demonstrable experience in modern optics.

Successful candidates will work under the direction of Dr. Vadim Backman, Walter Dill Scott Professor of Biomedical Engineering and Professor of Medicine (Oncology) and Molecular Genetics at Northwestern University.

Outstanding candidates interested in this opportunity are encouraged to send a CV to
Benjamin Keane at:

b-keane@northwestern.edu