

Research Fellow Position in Optical Imaging

Massachusetts General Hospital Department of Radiology, Athinoula A. Martinos Center for Biomedical Imaging and Harvard Medical School

An opening is available for a research fellow in the Optical Molecular Imaging laboratory, at the Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital and Harvard Medical School. This is an exciting opportunity to work in the emerging field of molecular imaging, which combines the use of cutting edge imaging technology with recent advances in our understanding of the molecular underpinnings of disease and advances in development of molecular probes to target disease in vivo.

The research fellow will specifically work on novel time domain optical imaging technologies for both preclinical and clinical applications of cancer, diabetes and cardiac disease. The research fellow is expected to have a strong interest and involvement in all aspects of the research, including the development and use of imaging system, acquisition software, physics and mathematics of light propagation and reconstruction algorithms, small animal procedures (such as injections, post-mortem surgery) and the writing and maintenance of protocols. There can be some flexibility in the balance between the biological and engineering aspects of the work depending on the candidate's proficiency and career goals, but the candidate should express enthusiasm to learn all aspects of the imaging technology and explore applications to biological problems.

Requirements: The candidate will ideally will have a PhD degree in biomedical optics. But candidates with a PhD in pure sciences (chemistry/physics/biology) or engineering who have a strong interest in applying their skills for biomedical science are also strongly encouraged to apply. Previous experience in one or more of the following areas would be a strong plus: experimental optics, imaging, computational physics, partial differential equations, programming experience in the C/C++/Matlab, expertise in working with animal models of disease.

The Massachusetts General Hospital is an equal opportunity and affirmative action employer. To apply please contact: Dr. Anand Kumar at ankumar@nmr.mgh.harvard.edu