Postdoctoral Position in Translational MRI Research in Oncology

A postdoctoral position is available at the Department of Radiology, Abramson Cancer Center at University of Pennsylvania School of Medicine.

Description of Position and Research The candidate will work with preclinical and clinical MRI experts to develop and implement fast, respiratory motion-resistant quantitative diffusion weighted (DW)-, dynamic contrast enhanced (DCE)- and magnetization transfer (MT)-MRI methods for studying tumor microenvironment in pancreatic cancer. The imaging biomarkers are evaluated in a co-clinical setting: in genetically engineered mouse models (GEM) and in a clinical trial of pancreatic cancer patients. The candidate will also interact with a team of medical oncologists, pathologist, epidemiologist, and deep-learning scientist on this project, which is funded by the National Cancer Institute/NIH. This co-clinical and multidisciplinary setting will provide distinctive training experience.

Qualifications Candidates should have an advanced degree (equivalent to PhD) in biomedical engineering or medical physics. Prior experience in quantitative analyses of the above MRI methods and programming skills in Matlab, Python, C/C++ are highly desirable criteria for candidate selection.

Resources Department of Radiology at UPenn has advanced Small Animal Imaging Facilities including 4.7T and 9.4T horizontal bore MRI systems, where most research of this position will be conducted. Clinical MRI study of this project is conducted in the Center for Advanced MR Imaging and Spectroscopy, which is equipped with multiple clinical 1.5T and 3T, and one 7T MRI systems, all dedicated to research purpose.

Starting date and salary The position is available immediately. Salary will follow NIH guidelines and will be commensurate with experience. Extension is available after initial appointment of 1 year.

How to apply Qualified candidates are welcome to submit (1) Curriculum vitae (2) Cover letter outlining research experience and qualifications, (3) Contact information of 3 references to: Rong Zhou, Ph.D. Professor, Department of Radiology University of Pennsylvania Medical Center via email: u24mri@pennmedicine.upenn.edu

Research at Penn Medicine is recovering steadily with masking wearing and regular testing for covid in place to ensure safe working environment.

The University of Pennsylvania is an equal opportunity employer. Women and underrepresented minorities applicants are encouraged to apply.