Postdoctoral Scholar to focus on MRI of Prostate Cancer

Dr. Aytek Oto, Professor and Interim Chair of Radiology, and Director of the Grossman Center for Prostate Cancer Imaging, has an opening for a postdoctoral fellow who will focus on MRI of prostate cancer. The successful applicant would join one the leading laboratories working to develop innovative MRI methods for prostate cancer screening and image guided therapy. The research focuses on development of new MRI methods for diagnosis of prostate cancer, including diffusion imaging, quantitative DCEMRI, quantitative T2 mapping, and hybrid multidimensional MRI. The MRI Research center is equipped with two state-of-the-art Philips 3T scanners with specialized detectors for prostate imaging. In addition, there is a 9.4 Tesla Bruker scanner for studies of small animal models of cancer. State-of-the-art computing resources are available in the Department of Radiology and in the University's Research Computing Center.

The successful applicant would have the opportunity to learn all phases of biomedical MRI including data acquisition, pulse programming, quantitative data analysis, and correlation of MRI with histology. They would join a large and successful interdisciplinary research group that includes medical physicists, MRI technologists, clinical research coordinators, programmers, Radiologists, Surgeons, Oncologists, and Pathologists. This is an ideal opportunity to work in an interdisciplinary environment to learn translational MRI.

The successful applicant would be mentored by Dr. Oto and Dr. Greg Karczmar, Professor of Radiology and Medical Physics, Director of MRI. Oto and Karczmar have a strong record of preparing post-doctoral fellows for successful academic careers.

This position requires a Ph.D. in Physics, Medical Physics, Physical Chemistry, Electrical Engineering, Bioengineering, or a related discipline. An understanding of NMR or MRI physics and instrumentation is preferred but not required. A background in diffusion NMR or MRI, quantitative T2 mapping and/or DCEMRI is preferred but not required. We are willing to train people who have a strong background in the Physical Sciences but modest NMR or MRI experience.

The University of Chicago is located in the Hyde Park district of Chicago, a quiet residential area with a large student population, outstanding restaurants and entertainment venues, and easy access to the beach and downtown. The nearby downtown and near north areas of Chicago provide outstanding access to museums, shops, entertainment, restaurants, and beaches.

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To apply, submit email a curriculum vitae a to: Anne Colgan  acolgan@uchicago.edu

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