Postdoctoral Fellow at Memorial Sloan Kettering Cancer Center

A position is available in the Department of Medical Physics at Memorial Sloan Kettering Cancer Center (MSKCC). At MSKCC, the MRI group performs both clinical and preclinical studies. Our group primarily investigates the uses of magnetic resonance in clinical application ranging from tumor detection to assessment of treatment response.

The present position will focus on development of next generation diffusion weighted-MRI (DW-MRI) biomarkers reflective of complex tissue structure and biology, and its alteration due to therapy, as an alternative to traditional apparent diffusion coefficient (ADC) in clinical studies at the 3T MRI scanners. The interested candidate will be encouraged to participate primarily in the DW-MRI imaging studies although opportunities to develop his/her own projects in this area and dynamic contrast enhanced MRI (DCE-MRI), and clinical MR spectroscopy will be available. The candidate will have to work closely with Physicians as he/she will also be involved in integrating MRI for personalized medicine set up at MSKCC.

The candidate should have a PhD in medical physics or electrical or biomedical engineering, computer science, or a related field. His/her research focus should be on image processing and analysis using scientific programming such as Matlab/C++. It would be desirable for the candidate to have expertise in implementing, optimizing and validating MRI pulse sequences. He/she should have a demonstrated record of high quality publications in scientific journals and strong analytical, writing and verbal skills. The candidate should have an interest in the biology of cancer and will interact with scientists and clinicians in multiple departments.

MSKCC has one 3.0-Tesla Philips, MRI scanner, four General Electric (GE) MRI scanners (one 1.5-Tesla, three 3-Tesla) and 1 (1.5-Tesla) Siemens MRI scanner at Main Campus, 3 GE MRI scanners (one 1.5-Tesla, two 3.0-Tesla); at Evelyn H. Lauder Breast and Imaging Center located within a short walking distance to Main Campus and seven GE scanners at additional sites. MSKCC is located in the Upper East Side of New York City in close proximity to Central Park and museums.

Applications:
An application letter with CV should be send to Dr Amita Shukla-Dave, davea@mskcc.org
Director Quantitative Imaging, Associate Attending Physicist,
Departments of Medical Physics and Radiology,
Memorial Sloan Kettering Cancer Center,
1275 York Avenue, NY, NY 10065, USA.