Postdoctoral Position on advanced MRI pulse sequence development

Applications are invited for a postdoctoral position in the ANSIR Lab at the University of Texas Southwestern Medical Center, Dallas, TX USA for the development of state of the art functional and diffusion MRI imaging pulse sequences, including the development of simultaneous multi-slice (SMS, multiband, multiplexed) MRI. The fMRI work will push the spatial-temporal limits of fMRI (task based and resting-state), while additional work is aimed at simultaneous advanced fMRI/EEG, compressed sensing and dictionary learning. The successful candidate will be co-mentored by and closely collaborate with:

- Prof. Joseph Maldjian (neuroimage analysis)
- Prof. Albert Montillo (sparse learning, imaging statistics)
- Prof. Ananth Madhuranthakam (MR physics)
- Prof. Elena Vinogradov (MR physics)

Research success is enhanced through exposure to:

- our department’s previous work and expertise in pulse sequence development (Philips, Siemens, GE),
- medical image analysis, and
- ready access to PET/CT, MEG, EEG, MRI (available Philips, Siemens, and GE) including 4 research-dedicated human scanners (3T and 7T), and animal scanners, 4.0-9.4T.

The candidate will benefit from membership in vibrant national and international research communities through our on-going collaborations with UPenn, UCLA, Children's National in Washington DC, Univ. of Washington, Wake Forest Univ., Philips and Siemens Research, as well as a large local neuroscience community at UTSW's O'Donnell Brain Institute, and UTD's Centers for Brain Health, Brain Performance, and Vital Longevity.

The salary compensation is very competitive and is enhanced by the relatively low cost of living in Dallas. The position is a fully funded 2-year post with health insurance. The funding for this position is stable and drawn from multiple start-up packages and R01 NIH grants. Visa assistance is available for international applicants. This is an excellent opportunity to launch your career: hone skills in research, teaching, leadership, grant writing, while receiving close mentorship from multiple professors and clinicians and a lively UTSW postdoctoral association (http://www.utsouthwestern.edu/education/graduate-school/postdoctoral-scholars/benefits-for-postdoctoral-scholars.html). UTSW is ranked in the Top 25 Best Places to Work for Postdocs (The Scientist).

Qualifications: A Ph.D. is required and the successful candidate will have a strong background in Physics, MR Engineering, Neuroscience, Biomedical Engineering, Electrical Engineering or related field, with an emphasis on MRI pulse sequence development to improve acquisition speed and/or image quality for human neuroimaging. Prior experience in programming Philips (GoalC) and/or Siemens (IDEA) 3T or 7T scanners is a plus. Researchers with background in compressed sensing and/or dictionary learning approaches are particularly encouraged to apply. Strong knowledge of programming (working knowledge of Linux, C/C++, Python, Matlab) is also desirable.

For consideration, please submit your application preferably as one single PDF-document including cover letter, detailed CV with publication & reference lists, a concise description of research interests & career goals, and academic transcripts to both:

Prof. Joseph Maldjian (Joseph.Maldjian@UTSouthwestern.edu)
Prof. Albert Montillo (Albert.Montillo@UTSouthwestern.edu)
with the subject line:PostDocFellow-PSD: (your name)"

Applications will be reviewed immediately until the position is filled.

UT Southwestern Medical Center is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans and individuals with disabilities are encouraged to apply.