Postdoctoral Position in Metabolic Imaging Research at UT Southwestern Medical Center

Two postdoctoral positions are available in the Advanced Imaging Research Center (AIRC) of UT Southwestern Medical Center at Dallas, Texas. Our laboratory has several exciting projects related to 1) the development of novel $^1$H-MRI/$^{13}$C-MRSI tools to elucidate in vivo metabolism of normal and pathological states and 2) the clinical translation of the technology.

Research Environment

Research clinical MR scanners (GE 3T 750w and Philips 3T/7T), preclinical MR scanners (4.7T/7T/9.4T Agilent and Bruker), DNP Polarizers (SPINlab (5T), HyperSense (3.35T), and Swiss Sense (4.6T)), chemistry labs and analytical NMR spectroscopy labs are available in the department. There is also opportunity for research collaboration with multidisciplinary experts including clinicians, chemists, biochemists, and imaging scientists.

Job Description and Candidate Qualification

1. **Position in engineering/MR physics**: Candidates are expected to (1) develop $^{13}$C MR spectroscopic imaging and/or advanced $^1$H MR imaging methods for preclinical/clinical studies, (2) perform in vivo experiments, and (3) optimize pulse sequences and reconstruction algorithms for clinical translation. Candidates must have Ph.D. in Electrical Engineering, Bioengineering, Physics, or relevant fields. Pulse sequence programming (GE, Agilent and/or Philips systems) and strong computer skills (Linux/Unix/MATLAB/C) are highly desirable.

2. **Position in biochemistry**: Candidates are expected to (1) explore pathophysiological metabolism using MR imaging and spectroscopy, (2) develop $^{13}$C/$^{15}$N-labeled substrates for preclinical/clinical studies, (3) perform NMR analysis of tissue extracts, cells and perfused organs. Candidates must have strong knowledge in metabolism and obtained Ph.D. in Biochemistry, Chemistry, Biology, or relevant fields.

To be considered for the position, please send your CV and contact information of two references to:

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