Post-doctoral Fellowship for High-Field (7T) Skeletal Muscle MR Spectroscopy Research

One postdoctoral fellow position is available with a joint appointment in the Department of Internal Medicine, Division of Cardiology and the Advanced Imaging Research Center at UT Southwestern Medical Center in Dallas, TX. The postdoctoral fellow will participate in a multidisciplinary research program focused on the functional aspects of healthy aging in the Dallas Heart Study (DHS). The DHS is a well-established, longitudinal, observational cohort study of more than 3,000 participants that began in 1999. The goal of this stage of the study is to characterize the biology of healthy aging. Research participants are returning for the next examination cycle where they are undergoing comprehensive measurements of functional status (exercise capacity, strength), whole-body MRI measurement of body fat distribution (liver fat, skeletal muscle fat, etc), and other testing. A subset (N=500) are undergoing novel 7T MRI measurements of resting ATP synthesis, intramyocellular lipids, and phosphocreatine recovery post-exercise. The fellow will be involved in application of advanced MRI methods, and will work as part of a multidisciplinary team of investigators with expertise in exercise science, aging, and neurocognitive function. Currently, the DHS has completed a robust pilot study (N=30) of DHS participants who have completed both exercise testing and multimodality imaging.

Responsibilities:

All applicants will be expected to apply statistical and data analytic tools to analyze spectroscopic data from the 7T research scanner. Specifically, the main responsibilities will include image acquisition, data management and analysis. In addition, the fellow will be expected to interact with other members of the multidisciplinary team which will include taking both primary and secondary authorship of scientific manuscripts and presenting scientific observations in national meetings.

Eligibility Requirements:

Applicants must have a PhD in biomedical imaging, engineering, applied mathematics, or some other, related field. Experience in skeletal muscle imaging and/or physiology is highly desirable. A record of productivity and high-impact publications in biomedical imaging or a related field is expected. Competitive salary and benefits follow the NIH pay scale.

Duration of Fellowship:

2 years with an optional, additional year pending satisfactory performance

How to Apply:

Applicants should email a CV along with two references and recent research interests and activities to the DHS Clinical Research Manager, Deepa Raj (deepa.raj@utsouthwestern.edu).

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