Assistant/Associate Project Scientist - Magnetic Resonance Research Laboratories (MRRL) Thomas Lab

University of California Los Angeles

Requisition Number: JPF10486

The MRRL Lab at UCLA is seeking motivated, exceptional Project Scientist with an established experimental background in multi-dimensional MR Spectroscopic Imaging (MRSI) of human organs, novel pulse sequence development and sequence optimization using phantom solutions as well as proficiency in Siemens Idea Compilers (VE11c, XA 30, XA31, XA 60 and XA61) and Matlab-based MRSI raw data extraction and linear as well as non-linear reconstruction with an interest in analysis and modification of home-developed Matlab codes. Current projects involve the analysis of MRSI and MRI data acquired using Cartesian and non-Cartesian trajectories aimed at understanding the healthy brain, cerebral metabolic alterations in obstructive sleep apnea (OSA), diabetes, people living with HIV (PLWH), aging brain, breast and prostate cancers and therapeutic monitoring of OSA to CPAP and breathing intervention and HIV to cART. The ideal candidate will have strong experience in the operation of 3T MRI scanners with an interest in developing novel pulse sequences and image reconstruction algorithms, and validation in different human diseases.

Responsibilities:

• Design, implement, and evaluate novel MRSI and MRI pulse sequences for research and clinical translation.

• Develop Extraction and Reconstruction Matlab/Python algorithms for the multi-dimensional MRSI raw data acquired using MRI scanners.

• Design, implement, and test novel imaging protocols and analysis methods for research studies.

• Perform and Lead independent research projects and support collaborative projects.

• Collaborate with a diverse team of investigators and trainees to advance the research projects at UCLA MRRL.

• Author scientific publications and present work at international conferences.

• Provide support for grant proposal preparation and submission.

• Complete and maintain up-to-date training for laboratory safety and human subject research in accordance with UCLA guidelines.

• Establish and maintain research infrastructure, such as computer systems, storage devices, and software environments.

• Develop and update standard operating procedures and best practices for research projects.

• Supervise doctoral and postdoctoral trainees and staff members in MRRL.

• Train and mentor MRRL Lab members, including MR physics and data analysis.

• Support and participate in educational programs in MRRL.

• Communicate clearly and effectively, both verbally and in writing, and independently complete scientific/technical reports and presentations.

About THE LAB:
The MRRL (MR Spectroscopy Lab) has published several hundred peer-reviewed manuscripts and conference abstracts in close collaboration with graduate students, postdocs, staffs, collaborators, and colleagues. We collaborate closely with neuroscientists, neuropsychologists, biostatisticians and clinicians at UCLA. The MRRL has access to five clinical research Siemens MRI systems (3T Prisma, 3T Vida, 3T Skyra, 1.5 T Sola, and 1.5T Avanto Fit systems), as well as a dedicated imaging research facility for pre-clinical studies (including one 3T Prisma). For more information, please visit https://mrrl.ucla.edu/

Apply Link: https://apptrkr.com/6377548.
Contact: mailto:AThomas@mednet.ucla.edu

Subject Heading: MRRL Project Scientist

To Apply: Email (1) an updated CV, (2) statement of research, and (3) contact information for 3 references at https://apptrkr.com/6377548. Only applicants that apply through this website will be considered.

This appointment is subject to amendment based on any changes to applicable collective bargaining agreements.

The posted UC salary scales (https://www.ucop.edu/academic-personnel-programs/_files/2025-26/represented-july-2025-scales/t37-b.pdf) set the minimum pay determined by rank and step at appointment. See Table 37B. The salary range for this position is $76,700 - $102,500.

Cultural North Star
The shared values of the DGSOM are expressed in the Cultural North Star, which was developed by members of our community and affirms our unswerving

commitment to doing what's right, making things better, and being kind. These are the standards to which we hold ourselves, and one another. Please read more about this important DGSOM program at https://medschool.ucla.edu/cultural-north-star.

To apply, please visit: https://apptrkr.com/6377548