MRI Imaging Staff Scientist, and postdoctoral imaging fellowship

Summary

Immediate opening for one PhD Imaging Staff Scientist and one PhD imaging postdoctoral candidate to join a highly translational molecular imaging and nanotherapy group. The position is open to both US graduates and International candidates with appropriate visa status. The appointee(s) will have earned a Ph.D., in Biomedical Engineering, Physics or other related disciplines with a specific background in magnetic resonance imaging and spectroscopy. The staff scientist candidate will have completed at least one postdoctoral training program and the postdoctoral fellow will be a new graduate seeking a first postdoctoral position. Experience with in vivo cardiovascular and cancer imaging of experimental small animals (mice, rats, rabbits, etc.) is required with either or both clinical (1.5-3T) and high field (4.7-11.7T) experimental MRI platforms, along with coil design and fabrication experience. Pulse programming expertise is highly valued. Experience with clinical research and patient imaging is a plus. Opportunities exist for participation in multiple ongoing NIH-sponsored projects including but not limited to:

- The development and testing of nanoparticle-based approaches for the MRI and related nanotherapy of cardiovascular diseases, cancer, arthritis, and acute kidney disease to detect, treat, and monitor unstable atheroma and acute myocardial infarction. MRI and MRS will be used to define nanoparticle delivery and concentration, to detect and follow disease progress and response to therapies targeted at inflammatory signaling pathways such as NFkB, JAK/STAT, JNK and others. Design and testing of novel contrast agents for molecular imaging is featured, as well as design of novel algorithms and pulse sequences for tissue characterization and elucidation of organ pathophysiology.

The selected candidate is expected to work independently, with other lab members, and under general supervision of collaborating PI(s), in concert with the Principal Investigator to move the project(s) forward effectively. The selected candidate may be responsible for the following activities: develop and implement research strategies based on thorough and rigorous literature reviews; develop and modify research protocols; manage data entry and storage; prepare research protocols, reports, abstracts, and manuscripts; attend international meetings; mentor junior members of the lab and students in imaging methodologies.

Preferred Qualifications

- Strong organization skills and significant attention to detail.
- Outstanding strategic thinking, planning and communications skills.
- Self-motivated and able to initiate necessary actions without instruction.
- Ability to remain on-task and simultaneously manage multiple aspects of the daily workload.
• Ability to work both independently and with a team, resolving issues promptly and with a positive outcome.
• Very high level of integrity, ethics and professionalism.
• Very strong verbal and written communication skills and computer skills.
• Respect for peers and team members.

The Principal Investigator

Dr. Samuel Wickline M.D., Professor of Cardiovascular Science, TGH Endowed Chair of Cardiovascular Medicine, Director of University of South Florida (USF) Health Heart Institute, and Interim Director of the Department of Cardiovascular Sciences joined the USF in December 2016 and brings active research programs from Washington University School of Medicine. The USF Heart Institute brings together a critical mass of basic science, translational, and clinical researchers to address unmet medical needs related to cardiovascular disease (CVD), the number one killer of Americans today. Dr. Wickline's laboratory, funded by NIH, is a multidisciplinary basic and applied research environment and training venue with a translational focus. Our research activities cross many Departments, Schools, and Institutions to create and deploy new diagnostic imaging and therapeutic technologies for myriad diseases including cardiovascular, cancer, hematology, renal, pulmonary, infection, metabolism, gastrointestinal, orthopedic, gynecological, among others. Graduate students and postdoctoral fellows are represented from diverse Departments including Biomedical Engineering, Physics, Medicine, Pathology, Molecular and Cellular Biology, and Computational Biology among others. Please see: [http://health.usf.edu/medicine/cardiology/faculty/2871501/Wickline](http://health.usf.edu/medicine/cardiology/faculty/2871501/Wickline)

Information regarding Staff and Administration benefits can be found by visiting the following website: [http://www.usf.edu/work-at-usf/benefits/](http://www.usf.edu/work-at-usf/benefits/)

In order to apply for this position, please visit the USF Careers website ([http://www.usf.edu/work-at-usf/careers/](http://www.usf.edu/work-at-usf/careers/)) and click on “Access Careers@USF.” From there, search for job ID 13054 and follow the directions listed in the posting to apply. Please make sure to upload your cover letter and CV. Three references will be requested for promising candidates (one reference must be current your current supervisor) after initial review.

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