



Postdoctoral Research Associate in Biomedical Ultrasound Imaging

A postdoctoral research associate position is immediately available for a project supported by NIH at Multi-modality Biomedical Ultrasound Imaging Lab (KIM Lab <https://sites.pitt.edu/~kangkim/>) in the Center for Ultrasound Molecular Imaging and Therapeutics (<http://www.imagingtherapeutics.pitt.edu/>), housed at the Department of Medicine at the University of Pittsburgh. The aim of the project is to develop a novel hybrid noninvasive imaging modality to characterize atherosclerotic plaques, combining ultrasound-induced thermal strain imaging and super resolution ultrasound imaging techniques. The study involves computer simulations for ultrasound signal/image processing, beamforming and tissue and vessel modeling, water tank experiments using the tissue/vessel mimicking phantoms, and excised tissue specimens, and in vivo animal model.

Applicants should have completed a PhD in the fields, including (Applied) Physics, Electrical Engineering, Bioengineering, Mechanical Engineering, Computer Science, Acoustics, or related fields preferably with a deep understanding of ultrasound physics, strong training in ultrasound transducer array beamforming and data analysis, and hands-on experience in the water-tank experiments. Highly motivated candidates with experimental background, a strong academic and publication record, and the ability to work independently and collaboratively with a strong commitment are invited to apply. Applicants will be expected to integrate into the KIM lab and the Center, comprised of PhD and MD faculty members, postdoctoral fellows, graduate students, undergraduate students, and technicians, and will be able to take advantage of a research community with exceptionally strong specialized and diverse expertise at the University of Pittsburgh.

Interested candidates should send a cover letter, their CV, and the names and contact information of three references electronically to the email address given below. The position opening is immediate and will remain open until filled.

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