

The Ultrasound Research Laboratory in the Department of Radiology of Thomas Jefferson University consists of 8 faculty (4 PhD scientists and 4 MD physicians; including 2 clinical radiologists who are also principal investigators (PIs) on NIH grants). Our lab is involved in a wide range of projects ranging from benchtop investigations in water-baths and computer simulations over pre-clinical studies to full-fledged domestic and international, multi-center clinical trials; most (but not all) centered around the use of microscopic gas-bubbles as ultrasound contrast agents. The lab also maintains the Jefferson High Frequency Ultrasound Core Facility providing support for state-of-the-art small animal ultrasound imaging for researchers across the entire university.

The currently available post-doc position is related to the multi-site breast cancer study utilizing contrast-enhanced ultrasound funded by NIH.

Responsibilities of the candidate include:

- Prepare for experimental and clinical ultrasound data collection
- Collect and manage experimental and clinical ultrasound data
- Perform data analysis using MATLAB
- Perform statistical analysis
- Prepare seminars, conference abstracts and presentations
- Publish papers
- Attend weekly meetings with the PI
- Independently develops scientific hypotheses related to ongoing work
- Independently designs experiments to test hypotheses

- Independently carries out or delegates procedures for experiments

Qualifications:

- Earned a recent or soon to earn a doctorate in mechanical, electrical, biomedical engineering or related relevant field
- Proficiency with signal and image processing methods
- Productive publication record
- Experience presenting results at scientific conferences
- Programming skills in MATLAB
- PLUS: Experience with ultrasound imaging systems and technology

Other Attributes:

- Exposure to modern statistical techniques including linear mixed model analysis, machine learning and other large data analytical techniques
- Ability to effectively collaborate and communicate with a multi-disciplinary research team
- Initial one year appointment with potential of 1-2 additional years

If you are interested in the position, please send a CV to kibo.nam@jefferson.edu (Kibo Nam, PhD, Research Assistant Professor, Department of Radiology).

To Apply

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