



**Department of Radiology,
University of Arizona (Tucson, AZ)**

A Postdoctoral position is available in the lab of Dr. Russell S. Witte, PhD, in the Department of Radiology at the University of Arizona (Tucson, AZ). The successful candidate will assume a lead role on an NIBIB-NIH funded research project to develop Ultrasound Current Source Density Imaging (UCSDI), a new technique that integrates cutting-edge ultrasound and electrode technology for mapping cardiac potentials and detecting arrhythmias. Under the direction of the PI, the candidate is expected to

Expectations:

- 1) Design and conduct *in vitro* heart imaging experiments (Langendorff)
- 2) Apply signal processing techniques to model and analyze multidimensional data
- 3) Contribute to high quality publications
- 4) Mentor a team of undergraduate and graduate students

Required Qualifications:

- 1) PhD in Biomedical Engineering, Electrical Engineering, Applied Physics or related field
- 2) Experience with biomedical instruments (e.g., ultrasound, bioelectric or impedance technology)
- 3) Skilled in signal processing of multidimensional data
- 4) Excellence in written and spoken English

The candidate shall be self-motivated, able to work independently in a multidisciplinary environment, and have a track record of quality publications (e.g., in ultrasound, bioelectric or biomagnetic research). Other useful knowledge and skills: electrophysiologic techniques, cardiac physiology, impedance measurements/imaging, Matlab/C++, COMSOL, machine shop, animal handling.

Position open until filled. Salary is commensurate with experience and qualification. The University of Arizona is an equal opportunity/affirmative action employer.

To Apply: Qualified individuals should send their application by email (as a single .pdf attachment), including their current CV, letter of motivation, and name/contact information of three references to rwitte@email.arizona.edu

More info available on the laboratory website: <http://www.u.arizona.edu/~rwitte/>