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 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/](http://www.u.arizona.edu/~rwitte/)