Speech Real-time MRI
Postdoctoral Research Associate

Speech Production and Articulation Knowledge Group (http://sail.usc.edu/span)
Magnetic Resonance Engineering Laboratory (http://mrel.usc.edu/)
Signal Analysis and Interpretation Laboratory (http://sail.usc.edu/)
Los Angeles, California, USA

We seek a new post-doctoral research associate whose work will be focused on real-time MRI of human speech and upper airway function (e.g., breathing, swallowing). The position involves the design of pulse sequences, image reconstruction methods and novel experiment paradigms, implementation and testing on clinical scanners, and evaluation in adults, children, and patients. Responsibilities will include mentoring 2-4 PhD students, running a weekly project meeting, managing weekly data collection involving human subjects, and collaborating with Electrical Engineers, Linguists, Speech Scientists, and Otolaryngologists. This research is supported by the National Institutes of Health and National Science Foundation.

Candidates should have a PhD degree, strong communication skills, experience developing MRI methods, and first-author journal publications. We prefer candidates with experience in some combination of real-time MRI, data sampling, constrained reconstruction, and basic anatomy and physiology. Other desirable qualities include fluency with C/C++ programming, GE EPIC programming, and image analysis software.

The expected duration is 2 years (extendable to 3 years based on performance and interest). This position includes a competitive salary, benefits, travel, office space, lab space, and excellent scanner access. Interested candidates should provide a cover letter, CV, and contact information for up to three references. Electronic submission of materials is preferred. Contact:

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ISMRM slack: @knayak

USC is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.