Software Engineer: Biomedical Imaging Lab @USC

We have an open position for a Software Engineer in the Biomedical Imaging Lab within the Signal and Image Processing Institute in the Ming Hsieh Department of Electrical and Computer Engineering at the University of Southern California. We are looking for a software engineer/programmer to support research activities in neuroimaging, and in particular provide support for the Brainstorm software (https://neuroimage.usc.edu/brainstorm) developed at USC in collaboration with McGill University and the University of Texas and Brainsuite (https://brainsuite.org/) developed jointly with David Shattuck at UCLA. Current clinical applications of our software include: (i) the treatment and understanding of epilepsy; (ii) studies of depression and suicidal ideation, (iii) simultaneous fMRI/EEG at low (0.55T) fields, and (iv) prediction of post-traumatic epilepsy resulting from traumatic brain injury.

Candidates should have an MS or PhD degree degree in Computer Science or Engineering with demonstrated record of software development. If you are interested, please send resume and cover letter to Richard M. Leahy, (leahy@sipi.usc.edu).

We have a substantial and growing program in biomedical applications of sensing, imaging, analysis and control in USC, with multiple faculty in Electrical and Computer Engineering (Richard Leahy, Krishna Nayak, Anand Joshi, Shri Narayanan, Maryam Shanechi, Yasser Kahn and Justin Haldar) with research interests that include medical imaging, signal processing and machine learning applied to the brain. We have access to 3T and 0.55T MRI with simultaneous EEG on the main university park campus where the ECE dept is housed as well as 7T and 3T research and clinical scanners at USC's Health Science Campus and Childrens' Hospital LA.

USC is an equal opportunity, affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, protected veteran status, disability, or any other characteristic protected by law or USC policy. USC will consider for employment all qualified applicants with criminal histories in a manner consistent with the requirements of the Los Angeles Fair Chance Initiative for Hiring ordinance.

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