Postdoctoral or Staff Researcher in Perinatal Brain MRI

One postdoctoral researcher or academic staff position is available at the Surbeck Laboratory of Advanced Imaging, located on the Mission Bay campus of UCSF. The Advanced Imaging Center is a unit of the Department of Radiology at UCSF that is dedicated to the development, translation and evaluation of advanced MRI techniques. Its focus is to combine the talents of basic scientists, clinicians and engineers in order to develop new technology, investigate novel applications of existing technology and provide rapid optimization of clinical protocols. In addition to being used by faculty from the Department of Radiology, this center supports projects from researchers from the departments of Neurology, Pediatrics, Physiology, Pharmaceutical Chemistry, and Oncology. The unit includes an infrastructure for more than 100 research staff. The studies being performed at the center use a large number of different techniques, but have the common thread of pushing the boundaries of signal to noise, temporal and spatial resolution in the quantitative evaluation of human disease.

The position is primarily funded by a new NIH R01 to leverage advanced imaging techniques for in vivo brain studies in fetal and neonatal subjects with congenital heart defects. The candidate will work closely with teams in Radiology and Pediatric Cardiology to assess oxygen delivery to the fetal/neonatal brain and correlate with neurobehavioral outcome.

Additional imaging projects are available in fast and motion robust MRI acquisition, reconstruction, and post-processing in ongoing studies leveraging 3T/7T and X-nuclei metabolic imaging.

Required Qualifications:
Ph.D. in physical sciences or engineering
Strong hands-on ability
GE EPIC programming experience
Programming skills in C/C++, Matlab, Python
Statistical background

Preferred Qualifications:
Experience with MRI acquisition
Experience with image processing
GPU programming/Machine Learning experience

Please send inquiries and CV/resumes to
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