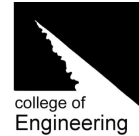




WAYNE STATE  
UNIVERSITY



## COLLEGE OF ENGINEERING & SCHOOL OF MEDICINE

Wayne State University MR Research Facility (MRRF) and Biomedical Engineering (BME) Department are seeking highly qualified postdoctoral research fellows to conduct research in translational neuroimaging.

The candidate is expected to have strong background in perfusion imaging (ASL and/or DSC PWI, ideally both) in both MR sequence programming and related image processing. A PhD degree in physics, engineering or related field will be expected. The major work will be to combine perfusion imaging and susceptibility weighted imaging and mapping to estimate brain hemodynamics and metabolism. The goal is to deliver a clinical viable solution for traumatic brain injury (TBI) and other neurologic disorders. Promotion will also be possible depending on the person's performance and our funding availability.

MRRF is one of the leading centers in MR technical development and clinical translation, under the leadership of Dr. E Mark Haacke, who is a pioneer in MRI. This team is the major developer of susceptibility weighted imaging (SWI) and mapping (SWIM), an approach of quantitative susceptibility mapping. MRRF houses one Siemens 3T human scanner and one Bruker 7T animal scanner. BME department of Wayne State University is historically very strong in TBI research, which is a very hot area with promising future for young researchers. Neuroimaging of TBI is one major strategic direction of both MRRF and BME. The TBI research program is very strong with a team of leading imagers, physicians and neuropsychologists, and rehabilitationists. Supported by the NIH funding, the candidate will directly interact with the leading MR physicists and clinicians in the world to translate advanced MRI techniques into the care of TBI patients and other neurologically challenged patients.

Highly qualified candidates are encouraged to send their CV along with names of three references and sample publications to Dr. Zhifeng Kou, [zhifeng\\_kou@wayne.edu](mailto:zhifeng_kou@wayne.edu) or [Zhifeng.kou@gmail.com](mailto:Zhifeng.kou@gmail.com) for consideration. Please also address your questions to Dr. Kou by email as well.