Now Seeking Candidates for Postdoctoral Fellowships in Biomedical Imaging Research

We have multiple openings for Postdoctoral Fellows and other positions in Center for Advanced Metabolic Imaging at the University of Pennsylvania. The group takes a teamwork-oriented focus to accomplish next generation biomedical and metabolic imaging. The candidates will develop new computational and engineering technologies for discovery of biomedical and metabolic imaging traits in humans. We employ a highly translational and bench-to-bedside approach, rapidly iterating on discoveries, and patient-oriented research.

Job duties and responsibilities for postdoctoral Fellows for a Program in MRI/MRS

- The postdoctoral fellow will lead a project to develop new techniques for magnetic resonance imaging (MRI) and magnetic resonance imaging spectroscopy (MRS).
- Experience with programming magnetic resonance imaging pulse sequences or image reconstruction algorithms. Experience with Siemens IDEA or ICE is a plus.
- Write research articles and grants, prepare and organize data, graphics and presentations upon request.
- Communicate findings to research fellows and other stakeholders with diverse expertise and backgrounds.
- Employ conventional and innovative computational imaging methods.
- Proactively mentor other lab members as necessary including graduate students.
- The applicant should be highly motivated, have excellent interpersonal and communication skills, and prioritize multiple tasks.

Education requirements for computational scientists

- M.Sc. or Ph.D. in machine learning, computer science, biomedical imaging, physics, bioengineering, computer science, electrical engineering, or mechanical engineering.
- Experience developing machine learning algorithms (state-of-the-art) convolutional neural networks and packages (e.g. TensorFlow)
- Experience with cloud compute and massively parallel or distributed computing.
- Experience with Linux, Python or R.
- Highly motivated, have excellent interpersonal and communication skills, and prioritize multiple tasks.

Center for Advanced Metabolic Imaging at the University of Pennsylvania

CAMIPM is a NIH P41 National Center for Biomedical Imaging and Bioengineering. We on developing instrumentation, methodologies, and data analysis techniques for the quantitative assessment of functional, structural, and metabolic parameters in humans with the use of chemical exchange weighted molecular magnetic resonance imaging (MRI), MRI of oxygen consumption, down field spectroscopy, and diffuse optical imaging techniques. Visit www.med.upenn.edu/corlab/ for more information. Our laboratory has access to a ultra-high field 7 T whole-body MRI scanner and state-of-the-art whole-body and animal imaging systems.
Applicants are requested to submit their resume, or CV, and a note outlining research interests, experience, and qualifications to Dr. Walter Witschey at witschey@pennmedicine.upenn.edu

About the University of Pennsylvania.
The University of Pennsylvania is a world-renowned leader in education, research an innovation. This historic, Ivy League school consistently ranks among the top 10 universities in the annual U.S. News and World Report Survey. Located in Philadelphia, Pennsylvania, it is home to a vibrant urban setting and close-knit community of academic researchers. Women and applications of underrepresented minorities are strongly encouraged to apply.