Position Title
Academic Positions in the PET Center / Radiology Department at the Yale School of Medicine -- PET/MR

ID:128175

Position Description
The PET Center / Radiology Department at Yale School of Medicine welcomes applications for a tenure-track position at the rank of Assistant or Associate Professor in the Department of Radiology and Biomedical Imaging.

Yale School of Medicine educates and nurtures creative leaders in medicine and science, promoting curiosity and critical inquiry in an inclusive environment enriched by diversity. We advance discovery and innovation fostered by partnerships across the university, our local community, and the world. We care for patients with compassion and commit to improving the health of all people.

The Yale University PET Center located on Howard Avenue in New Haven, CT is a 22,000 sq. ft. facility established to advance the interests of Yale clinicians, scientists, and students in molecular imaging research.

The Yale University PET Center is comprised of a technologically advanced radiochemistry laboratory engaged in the development and use of a rich set of PET radiopharmaceuticals labeled with the most common PET isotopes (11C, 15O, 13N, and 18F); and an imaging and data analysis section that oversees scanning procedures and optimizes data acquisition and analysis.

The Yale University PET Center collaborates with other School of Medicine departments to provide educational opportunities for doctoral and postdoctoral trainees. Collaborations with industry partners serve to advance the use of molecular imaging in new medication discovery and the development of new PET radiopharmaceuticals. Current research interests focus on disorders of the central nervous system (CNS), oncology, cardiology, and diabetes.

Primary responsibilities of the position include establishing and leading an active research program related to quantitative PET/MR imaging and its clinical applications with extramural funding; supervision of undergraduate and graduate students, postdoctoral fellows, and junior faculties; and teaching at both undergraduate and graduate levels in the Department of Radiology and/or the Department of Biomedical Engineering.

Successful candidates are expected to have a strong background in MR, PET, and preferably PET/MR imaging, and have demonstrated experience and expertise in (but not limited to) MR sequence programming, RF pulse design, machine learning-based image reconstruction for MR and PET, MR-based PET attenuation and motion correction, MR parametric mapping, perfusion imaging with arterial spin labeling
(ASL), and MR spectroscopic imaging (MRSI). Preferably, the candidate’s research interests will align with one or more of the following research areas:

A. Development of cardiac MR imaging technologies, i.e., novel MR data acquisition, image reconstruction, and data processing methods, for multi-parametric mapping and real-time motion correction in cardiac PET/MR.

B. Development of high-resolution MRSI technologies, i.e., ultrafast MRSI sequence, machine learning-based image reconstruction, and joint spectral quantification, for multi-parametric, multi-modality molecular imaging in PET/MR.

C. Development of high-resolution ASL-based technologies, i.e., novel imaging sequence, constrained image reconstruction, and data processing methods, for multi-parametric cerebrovascular imaging.

**Qualifications**
Candidates must have: a Ph.D. or equivalent degree in electrical engineering, computer engineering, biological or biomedical engineering, medical physics, neural engineering, or a related field of engineering or science at the time of hire; a minimum of four (4) years of post-doctoral research in an academic environment; excellent communication skills; grant application experience. Rank is dependent on the successful candidate’s qualifications.

Candidates preferably have a track record of: K01 or R01 level federal grant support as the Principal Investigator; mentoring graduate students, postdoctoral fellows, and junior faculties; high-quality peer-reviewed publications and presentations; and, experience in interdisciplinary research collaboration.

**Application Instructions**
Application Instructions: Interested applicants should upload their CV and cover letter to the following website: apply.interfolio.com/136252. All final candidates will need to provide three letters of reference. Review of applications will begin immediately and continue until the position is filled.

**Equal Employment Opportunity Statement**
Yale University is an Affirmative Action/Equal Opportunity employer. Yale values diversity among its students, staff, and faculty and strongly welcomes applications from women, persons with disabilities, protected veterans, and underrepresented minorities.