

# POSTDOCTORAL POSITION IN NUCLEAR MEDICINE IMAGING PHYSICS

A three-year post-doctoral fellowship will be available starting 1-Nov-2004. The position is designed to train recent graduates to work as a medical physicist in an academic department, clinical position, or in industry. The successful candidate will become part of a research program focusing on improving the specificity of single photon emission computed tomographic (SPECT) cardiac perfusion and oncology tumor imaging. They will participate in ongoing research involving the estimation of patient specific attenuation maps, the use of these maps in attenuation correction, scatter compensation, modeling and correction of the nonstationary spatial resolution of the imaging system, respiratory and cardiac gating of SPECT, the detection and correction of patient motion, and dual modality imaging. They will be provided the opportunity to master the clinical tasks associated with being a medical physicist in a clinical setting and will be given the opportunity to assist in teaching courses on medical imaging for nuclear medicine technologists, cardiology fellows, radiology residents, and BME graduate students. Additionally, they will also have the chance to work with industrial sponsored research. The facilities dedicated to medical imaging research include multiple workstations, newly renovated office/research space, and shared access to a 186 node dual CPU per node cluster. The clinical department is scheduled to move to a new facility in early 2006 with replacement of the current imaging equipment and the addition of SPECT/CT and PET/CT systems.

Candidates must have a doctoral degree in medical physics, physics, applied mathematics, engineering, or computer science. Proven expertise in C programming, working with Unix (Linux) workstations, and mathematics through linear algebra and Fourier methods is essential. Experience with tomographic imaging and reconstruction, modeling radiation transport, image processing, signal processing, observer studies, Monte Carlo simulation, optical and/or IR imaging, and IDL is desired. Candidates interested in gaining clinical experience are sought.

To apply send letter of application detailing relevant experience and career objectives, a curriculum vitae, a list of graduate courses, and the names of three references to: **Michael A King, PhD, Division of Nuclear Medicine, The University of Massachusetts Medical School, 55 Lake Ave North, Worcester, MA 01655**. To find out more information call Dr King at (508) 856-4255, send e-mail to Michael.King@umassmed.edu, or visit <http://wachusett.umassmed.edu/~king/>, or contact Dr. King at 2004 NSS/MIC meeting.

The University of Massachusetts is an equal opportunity employer.