Assistant/Associate Professor

The University of North Texas Health Science Center (HSC), located in the charming Cultural District of Fort Worth, Texas, is nationally recognized for its medical school, graduate student education, and health professions, pharmacy and public health programs. The HSC Department of Pharmacology and Neuroscience (P&N) is internationally recognized for its commitment to impactful biomedical research, robust education of future health care providers, outstanding graduate training, and selfless community outreach. The P&N Department is the faculty home to several research institutes that organize and support focused, basic and translational multidisciplinary research efforts in, for example, aging and neurodegenerative diseases (Center for Healthy Aging) and visual sciences (North Texas Eye Research Institute).

The Department currently consists of 35 faculty, who advise and train many graduate students, postdoctoral fellows, and other research staff in (1) the neurobiology of aging, neurodegenerative diseases, traumatic brain injury, and stroke; (2) diseases of the eye; and (3) drug discovery, drug development, and behavioral pharmacology. P&N is also the home of the National Institutes of Health T32 program "Training In the Neurobiology of Aging and Alzheimer's Disease" (T32 AG020494). P&N also maintains cutting-edge facilities for mass spectrometry, advanced confocal microscopy, high-throughput electrophysiology, and in vivo preclinical neurocognitive psychomotor and sensorineural testing.

A $2 Million investment is now being made in new, state-of-the-art, multi-model MRI, PET, and CT imaging for preclinical small animal studies aligned with the research mission of the department. The P&N Departmental Mission is to create solutions for enhancing and extending health and quality of life by integrating clinical care with cutting-edge preclinical research, and providing innovative education and community engagement opportunities.

Responsibilities for this position will include:
• Rodent MRI methods development and application, especially to pre-clinical models relevant to P&N research foci in aging, neurodegenerative diseases, traumatic brain injury, stroke, and eye diseases.
• Advancing a high-quality record of peer-reviewed publications in rodent-focused neurological imaging.
• Collaborating within and outside the Graduate School of Biomedical Sciences.
• Seeking extramural support in both individual and collaborative manners to support high quality research.
• Supervising students, postdoctoral trainees, and technical staff undertaking research projects.
• Maintaining a safe work environment, including ensuring compliance with local, state, and federal legislation, and the undertaking of risk assessments.
• Teaching and mentoring of health professional and graduate students.
• Participating in the activities of departmental committees.
• Participating in UNTHSC-wide, as well as local, national, and international, service activities.
• Upholding high professional standards and leading by example.
• Pursuing additional professional and service activities as assigned by the P&N Department Chair.
• Promoting the mission, vision and values of UNTHSC.

Minimum Qualifications:

All candidates must have a Ph.D. degree in Medical Biophysics, Physics, Biomedical Engineering, Neuroscience, Pharmacology, or an allied discipline, and a minimum of 5 years experience beyond Ph.D. attainment.

The successful candidate will possess the following additional qualifications:

• Extensive research experience as evidenced by multiple publications in rodent-based neuroimaging studies.
• Mentoring experience with postdoctoral researchers and/or graduate students at the Ph.D. level.
• Ability to deliver teaching material in the fields of neuroscience and/or medical biophysics for both graduate and health professional students.

Preferred Qualifications:

Preference will be given to the candidates with following additional qualifications:
• Experience at the Assistant Professor level in an academic research environment.
• Experience running an independent, extramurally-funded research program applying the latest small animal imaging technologies.
• Experience with MRI sequence development, MRI and/or multi-modal instrumentation development, and/or the development of comprehensive imaging data analysis pipelines.
• Lecture experience at both the graduate and health professional student levels.
• Experience in mentoring of undergraduate, MS, Ph.D. students and post-doctoral trainees.
• Management experience overseeing research lab staff-members.
• Experience in mouse and/ or rat colony management.

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