



Rehabilitation Sciences Doctoral Program

Division of Physical Therapy
College of Health Sciences
900 S. Limestone Room 204D
Lexington, Kentucky 40536-0200
(859) 323-1100 ext. 800581

Doctoral Research Assistantship Positions Available

The Division of Physical Therapy in the Department of Rehabilitation Sciences, College of Health Sciences is seeking highly motivated students interested in pursuing a PhD and providing research assistance to two PT faculty members. Applicants should have a personal interest in clinical or basic science research, biomechanics, and/or lower extremity injuries. Two doctoral research assistantship positions are available. One RA will be working directly with Brian Noehren, PT, PhD pursuing a more comprehensive understanding of the mechanics and treatment of knee and hip injuries. Specifically, we have several developing projects on running mechanics, osteoarthritis, ACL injuries and patellofemoral pain syndrome. The second RA position will be an individual who will work directly with Scott Livingston, PhD, PT, ATC, SCS whose research focuses on understanding the pathophysiology of sport-related concussion, specifically focusing on electrophysiological assessment, balance and postural stability testing, and vestibular dysfunction following concussion.

Position Description: These are 12-Month Research Assistant Positions available beginning August 2010 and renewable for 2 years. The position includes a 12 month stipend, as well as a tuition waiver for fall and spring semesters and health insurance. Interested students can find information regarding the PhD in Rehabilitation Sciences through the Department of Rehabilitation in the College of Health Sciences (<http://www.mc.uky.edu/rehabsciences/>).

Qualifications:

1. Earned master's degree
2. Licensed physical therapist and/or certified athletic trainer
3. Interest in clinical or basic science research is required, with some experience preferred
4. Good computer skills
5. Good oral and written communication skills
6. Interest in mentoring graduate and/or professional students

Laboratories: The Biomechanics Laboratory and the Musculoskeletal Laboratory currently has 15 eagle motion analysis cameras and multiple force plates including an instrumented treadmill. Additional equipment includes: a metabolic cart, a Biodex isokinetic dynamometer, numerous computing facilities, Matlab, Labview, and Visual 3D. The labs have a close relationship with the School of Medicine and many possibilities exist for research involving imaging and other experimental techniques. The lab is very active with several Masters and Doctoral students using the lab space for a variety of projects.

The Concussion Assessment Research Laboratory currently has a MagStim200² transcranial magnetic stimulation device, a BioPac MP150 data acquisition system, and a GRASS Technologies stimulation and signal amplification system. We have a close relationship with the Musculoskeletal Laboratory in the Department of Rehabilitation Sciences which includes a NeuroCom SMART Balance System with advanced capabilities for vestibular assessment. Possibilities also exist for research collaboration with the Spinal Cord and Brain Injury Research Center (SCoBIRC), the Magnetic Resonance Imaging & Spectroscopy Center (MRISC), and the Department of Physical Medicine and Rehabilitation at Cardinal Hill Rehabilitation Hospital.

If interested in a funded research assistantship in either of these research areas (sport-related concussion or lower extremity biomechanics/running injuries) please contact:

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OR

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Lexington is a beautiful city situated in the rolling foot hills of the bluegrass region of Kentucky. There are numerous outdoor activities ranging from climbing to caving and kayaking, all within an hour's drive. Lexington also has a rich cultural environment with a strong arts and music scene. Additionally, Lexington benefits from a very reasonable cost of living and temperate weather.