JOB DESCRIPTION AND POSITION REQUIREMENTS:

The Penn State College of Medicine, Department of Neurology and the Neuroscience Institute, in Hershey, PA is seeking a postdoctoral scholar to work in the Stroke Neuroimaging Laboratory located at the Center for NMR Research (CNMRR). CNMRR is a state-of-the-art research facility with expertise in magnetic resonance imaging/spectroscopy, functional MRI, and their clinical applications in humans (including stroke, Parkinson’s disease, Alzheimer’s disease, multiple sclerosis, traumatic brain injury and concussion) and animal models. The facility has a dedicated 3T Siemens PRISMA-Fit research scanner equipped with TrueForm 2-Channel Tx and 128-Channel Rx and the latest RF coil set including a 64-Channel head coil and software packages with full clinical capability. There is also a 7T Biospec 70/20 small-animal imaging system.

Job Description

• The candidate will work closely with an interdisciplinary group consisting of a MR physicist, vascular neurologist, and radiologist to model, validate, and translate multishell diffusion imaging for clinical application in stroke
• Responsible for imaging data collection and maintenance of the imaging database
• Establishment of an imaging pipeline for the processing and analysis of diffusion and perfusion images with commercially available and developed software
• Maintain regulatory paperwork including IRB documentation and consent forms

Job qualification

• Applicant should have a doctoral degree in Biomedical Engineering, Physics, Neuroscience, Computer Science, or a related discipline with excellent research qualifications upon start date
• Experience with the analysis of diffusion MRI data, particularly in the areas of computational modeling of diffusion and image processing
• Experience with the analysis of perfusion imaging data (CT/MRI)
• Proficient in neuroimaging software packages such as Freesurfer and FSL
• Demonstrated skills in common programming languages – MATLAB, Python, T, C++, and the ability to learn new tools as required
• Experience in MR pulse sequence programming (particularly Siemens IDEA) is considered a plus
• Demonstrated professionalism, good communication, teaching, and organizational skills

This is a limited-term appointment funded for one year from date of hire.

CAMPUS SECURITY CRIME STATISTICS:

such as those concerning alcohol and drug use, crime prevention, the reporting of crimes, sexual assault, and other matters. The ASR is available for review here.

Employment with the University will require successful completion of background check(s) in accordance with University policies.

**EEO is the Law**

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applications without regards to race, color, religion, age, sex, sexual orientation, gender identity, national origin, disability or protected veteran status. If you are unable to use our online application process due to an impairment or disability, please contact 814-865-1473.

**Affirmative Action**

**Penn State Policies**

**Copyright Information**

**Hotlines**

Hershey, PA

**APPLICATION INSTRUCTIONS:**

- **CURRENT PENN STATE EMPLOYEE (faculty, staff, technical service, or student), please login to Workday to complete the internal application process.** Please do not apply here, apply internally through Workday.

- **CURRENT PENN STATE STUDENT (not employed previously at the university) and seeking employment with Penn State, please login to Workday to complete the student application process.** Please do not apply here, apply internally through Workday.

- **If you are NOT a current employee or student, please click “Apply” and complete the application process for external applicants.**

  **Apply**

To apply for job please use this external link https://psu.wd1.myworkdayjobs.com/en-US/PSU_Academic/job/College-of-Medicine/Post-Doctoral-Scholar---Neurology_REQ_0000023415-2