

Research Assistantship:

Real-time functional MRI with Neurofeedback

SUMMARY:

Applications are invited for a research assistantship position in the Human MR Imaging Research Laboratory at the University of New Mexico School of Medicine (<https://hsc.unm.edu/school-of-medicine/neurology/research/neuroscience-research-labs/mr-imaging-research-lab.html>). The study goal is to develop technology for mapping the human connectome in real-time and to monitor resting state connectivity in the limbic system with experimental feedback. The laboratory offers a stimulating and challenging research environment, and training in advanced biomedical imaging. This is an excellent opportunity for undergraduate and graduate students in **electrical and computer engineering, physics, biomedical engineering, nuclear engineering or computer science** and related fields who are interested in brain imaging research. Qualified candidates will have the opportunity to join the Doctoral Program to pursue a PhD in biomedical imaging.

Responsibilities include:

- Assistance with data acquisition in real-time functional MRI experiments
- Training of subjects to perform cognitive tasks
- Signal processing and image analysis of functional MRI data
- Assistance with preparation of reports, manuscripts, and conference abstracts.

This is a part-time or full-time position. The salary will be competitive and commensurate with experience.

MINIMUM JOB REQUIREMENTS:

- Undergrad at Junior level in ECE, physics, BME, NE, CS or equivalent
- 1 year of research experience with image acquisition and analysis in medical imaging or related fields
- 1 year of experience with signal and image processing.
- 1 year of experience in MATLAB and/or C programming

PREFERRED QUALIFICATIONS:

- Bachelor's in ECE, physics, BME, NE, CS or equivalent
- 2 years of research experience with data acquisition and analysis of functional MRI
- 2 years of experience with signal and image processing.
- 3 years of experience in MATLAB and/or C programming
- A working knowledge of neuroanatomy
- Ability to work independently in a team-oriented environment
- Excellent communication skills

DISTINGUISHING CHARACTERISTICS:

CONDITIONS OF EMPLOYMENT:

- None.

WORKING CONDITIONS AND PHYSICAL EFFORT:

- Work is normally performed in a typical interior/office work environment.
- No or very limited physical effort required.
- No or very limited exposure to physical risk.

The University of New Mexico provides all training required by OSHA to ensure employee safety.

Please send your application letter, current unofficial transcript and CV to sposse@unm.edu