Research Assistant – Spectroscopic MRI in Breast Cancer Research

SUMMARY:
This is an exciting opportunity for a research assistant with excellent signal processing and programming experience to participate in UNM Cancer Center funded project to analyze high-speed Magnetic Resonance Spectroscopic Imaging and dynamic contrast enhanced MRI data measured in patients with breast cancer. Responsibilities include backup of raw and reconstructed data, model-based spectral fitting and quantification of metabolite concentrations, volumetric analysis of dynamic contrast enhanced MRI, script development in Linux to facilitate data analysis, and documentation of results. The candidate must be experienced with MATLAB programming preferably on the LINUX platform. Experience with MRI data formats and spectral fitting is preferred. The laboratory offers a stimulating and challenging research environment, and training in advanced biomedical imaging.

MINIMUM JOB REQUIREMENTS:

- Bachelor's in electrical engineering, biomedical engineering, physics, computer science or equivalent
- Experience with signal processing
- Must have 2+ years of experience with MATLAB or C++ software development

PREFERRED QUALIFICATIONS:

- Experience with spectral fitting
- Knowledge of medical imaging
- Familiarity with the Linux platform
- 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.