The Department of Radiology at the University of New Mexico Health Sciences Center is seeking applicants for the position of MRI Physicist at the Research Assistant Professor level. The successful candidate will have experience in MR research and will make intellectual contributions as a collaborator on preclinical and clinical research projects; exercise technical discretion in the design, execution and interpretation of experiments that contribute to project strategies; develop novel MR pulse sequences and image analysis programs; and will assist with the analysis of reconstructed images, reformat and transform to required image space, and delineate anatomical regions of interest. The ideal candidate will have excellent oral and written communication skills and a strong commitment to advancing radiology research.

The Department’s research mission is to improve patient care by optimizing image acquisition techniques and developing new imaging methods that increase sensitivity and specificity for disease detection and progression. To this end, the Department provides imaging leadership and strategic vision for preclinical, clinical, and quantitative imaging with a focus on cancer and neurological imaging. The Department is committed to supporting collaborations and team science and opportunities to engage clinicians and scientists throughout the health system. Ultimately, our research team is focused on innovating and translating research from bench to bedside.

Clinical research is conducted on several MRI scanners, Siemens and Philips, and preclinical research is carried out on a new Bruker 7T/30 MRI. The department recently developed an image processing lab with a dedicated research PACS and 3D printing capabilities.

The University of New Mexico Health Sciences Center is located in the heart of the Rio Grande Valley with stunning natural beauty. There are 300+ days of sunshine per year in Albuquerque and an ideal environment for outdoor activities.

**Minimum Requirements:**
- Minimum of a Ph.D., or equivalent degree, in medical physics, imaging, biomedical engineering, computer science, or related field
- Knowledge of state-of-the-art preclinical and clinical MRI techniques including diffusion-weighted, diffusion tensor, diffusion spectrum imaging, spectroscopy, and perfusion imaging
- Knowledge of various image processing techniques to include co-registration, reformatting and transformation, segmentation, ROI analysis, atlas-based analysis, and voxel-based morphometry
- Postdoctoral experience or an equivalent combination of relevant education and/or experience
- Previous work with preclinical and/or clinical MRI at high field strengths (>3T) and image processing are essential

**Preferences:**
- Experience with advanced diffusion imaging, pulse programming, and computer programming experience in IDL, C, and/or Matlab
- Knowledge of RF coil development, tuning and matching
- Experience with a Bruker MRI scanner
Technical writing experience, specifically in grantsmanship, IRB, and/or IACUC protocol development

To apply and view the complete description, please access Req# 3561 at: https://unmjobs.unm.edu/
a complete application will include a CV and cover letter.

For questions please contact the Vice Chair for Research, Reed Selwyn, PhD, DABR, hsc-medphys@salud.unm.edu.


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