The Department of Radiology is seeking a Magnetic Resonance Imaging (MRI) Scientist. This Scientist will join other MRI Scientists in the department and will have clinical support responsibilities and research support responsibilities. The clinical support responsibilities will include the following: assist clinical faculty and staff in analyzing and facilitating the technical delivery of patient care in all areas of radiologic imaging. The research support responsibilities will include the following: identify research problems, design research methodologies, perform research, and help to prepare the results for presentation to professional organizations or for scholarly publications to help advance research.

The School of Medicine and Public Health has a deep and profound commitment to diversity both as an end in itself but, also as a valuable means for eliminating health disparities. As such, we strongly encourage applications from candidates who foster and promote the values of diversity and inclusion.

(50%) Clinical MRI Physics Responsibilities
1. Monitors and provides technical support for radiologic imaging of patients that require physics monitoring including and ensuring that novel and off-label imaging methods are performed according to institutional policies and guidelines.
2. Assists in establishing institutional policies and guidelines regarding the safe and effective use of radiologic imaging equipment.
3. Assists in customizing imaging hardware and/or software (including off-label use), while ensuring conformity with regulatory constraints and institutional policies and guidelines.
4. Trouble-shoots clinical issues on the radiologic imaging equipment such as identifying and ameliorating image artifacts and other problems affecting clinical image quality and coordinates with radiologic imaging equipment vendors to ensure that the radiologic imaging equipment is properly and routinely serviced/maintained.
5. Contributes technical input to inform decisions regarding purchasing new radiologic imaging equipment, performs required acceptance testing of new radiologic imaging equipment, and conducts ongoing Quality Assurance / Quality Control (QA/QC) of existing radiologic imaging equipment as required for maintaining accreditation. Directs clinical and research staff in the performance of routine QA/QC procedures.
6. Educates and trains clinical and research faculty staff and trainees regarding the basic physical and technical principles of radiologic imaging, including participating in educating the clinical residents and fellows.
7. Assists in developing clinical and research imaging protocols.
8. Address other issues, as directed by the Director of Clinical MR Physics.
(50%) Research MRI Physics Responsibilities
1. Identifies research problems and develops highly complex research methodologies and procedures. Publishes and presents results to help advance research
2. Collects and analyzes highly complex research data, conducts experiments and interviews, and documents results according to established policies and procedures
3. Conducts literature reviews, prepares reports and materials and, disseminates information to appropriate entities
4. Attends and assists with the facilitation of scholarly events and presentations in support of continued professional development and the dissemination of research information
5. Identifies, writes, or assists in developing grant opportunities, grant applications, and proposals to secure research funding
6. May supervise the day-to-day activities of a research unit and staff and resolve routine personnel issues
7. Serves as an institutional subject matter expert and liaison with key internal and external stakeholders providing expert level information and representing the interests of a specialized research area
Ph.D. in Physics, Medical Physics, Biomedical Engineering, or a closely-related field is required.

Minimum of 2 years post-graduate research experience in Magnetic Resonance Imaging (MRI) Imaging is required.

Experience with MRI image acquisition, reconstruction, processing, and analysis software is also required.

In addition, excellent communication skills are required for interacting with a variety of MRI users including technologists, radiologists, residents, fellows, and researchers.

MRI certification by the American Board of Medical Physics in MRI Physics, or similar medical physics certifying body is preferred.

https://jobs.hr.wisc.edu/en-us/job/509687/magnetic-resonance-imaging-mri-

Internal Number: 236938-AS

About UW-Madison, School of Medicine and Public Health, Department of Radiology
Department of Radiology Quick Facts - Robust clinical department with approximately 102 faculty, 21 fellows, and 32 residents - Facilities at University Hospital, one of the top-performing academic medical centers in the United States by the University HealthSystem Consortium - State-of-the-art technology in CT, MR, angiography, ultrasound, and PACs - Strong collaborations with the Department of Medical Physics and major equipment vendors - Extensive research infrastructure, including grant writing and IRB support, media specialists, research nurses and technologists, and data managers - Direct access to Wisconsin Alumni Research Foundation (WARF), one of the world’s leading patent and licensing organizations.