Job Title: Clinical MRI Physicist
University of Wisconsin-Madison School of Medicine and Public Health

Job Description:
The Department of Radiology offers a unique opportunity for a Clinical Magnetic Resonance Imaging (MRI) Physicist to join other MRI Physicists in the department and have clinical service and research responsibilities.

- This position requires most work to be completed onsite, at one or more designated campus work locations.
- Applicants who are interested in joining other Clinical MRI Physicists will be considered for the titles listed: Assistant, Associate, or Professor on the Clinical Health Sciences (CHS) Track. The title is determined by the experience and qualifications of the finalist.

Key Job Responsibilities:

Clinical MRI Physics responsibilities cover MRI clinical support, research and translation and education.

50% -70% Clinical MRI Physics Responsibili ies:
1. Monitor and provide technical support for MR imaging of patients that require physics monitoring including and ensuring that novel and off-label MR imaging methods are performed according to institutional policies and guidelines.
2. Assist in establishing institutional policies and guidelines regarding the safe and effective use of MR imaging equipment.
3. Assist in customizing MR imaging hardware and/ or software (including off-label use), while ensuring conformity with regulatory constraints and institutional policies and guidelines.
4. Trouble-shoot clinical issues on the MR imaging equipment such as identifying and ameliorating image artifacts and other problems affecting clinical image quality and coordinate with MR imaging equipment vendors to ensure that the MR imaging equipment is properly and routinely serviced and maintained.
5. Contribute technical input to inform decision regarding purchasing new MR imaging equipment, perform required acceptance testing of new MR imaging equipment, and conduct Quality Assurance/ Quality Control of existing MR imaging equipment, including activities required for maintaining accreditation, direct clinical and research staff in the performance of routine QA/ QC procedures.
6. Assist in developing clinical and research MR imaging protocols.
7. Address other issues, as directed by the Director of Clinical MR Physics or the Clinical Imaging Physics Section Chief.

20-40% Research MRI Physics Responsibili ies:
1. Support the research activities of other MRI investigators throughout the department.
2. Develop and maintain tools and infrastructure to facilitate departmental and core MRI research initiatives.

3. Write, or assist in writing, grant applications to secure funding to support independent MRI research projects.
4. Conduct innovative MRI research in collaboration with other UW faculty and scientists in the Department of Radiology, investigators in departments and schools across campus, and industrial partners.
5. Attend scientific conferences and meetings to present scientific research results, moderate sessions, and participate on committees and in working groups.
6. Write and submit manuscripts to professional journals describing results of research projects.
7. Mentor and conduct research with graduate students, post-docs, and scientists.

10% Teaching Responsibilities:

1. Serve as an institutional subject matter expert regarding specialized principles of MRI.
2. Educate and train clinical and research faculty, staff, and trainees the basic physical and technical principles of MRI, including participating in educating the clinical faculty, fellows, residents, technologists, nurses, and other staff.
3. Provide educational MRI lectures at international meetings and other venues external to UW.

Department Info:

The UW Department of Radiology provides excellence in patient care in an environment that is respectful of others, adaptive to change, accountable for outcomes, and attentive to the needs of underserved populations. We are dedicated to sharing our clinical expertise through regional outreach to the people of Wisconsin and their healthcare providers. We provide an environment for education of our trainees, staff, and healthcare professionals through scholarly conferences and continuing education programs. We improve human health by developing innovative imaging technology through basic and translational research in collaboration with colleagues at UW-Madison and beyond. We support the Wisconsin Idea to improve people's lives beyond our walls by collaborating with industry to translate modern technology into daily clinical practice. We support the economic development of Wisconsin and the financial wellbeing of UW Health. We recruit and develop dedicated faculty and health professionals who inspire their co-workers and students towards lifelong learning, research discovery, service to their community, and clinical excellence.

#1 Best Place to Live (Livability, 2022)
#1 City for Most Successful Women Per Capita (Forbes, 2019)
#1 City for Best Work-Life Balance (Smart Asset, 2020)
#7 Best City for STEM Professionals (CEO World, 2020)
#2 Best State to Practice Medicine (WalletHub, 2020)
#2 Best City for Biking (People for Bikes, 2020)
#4 Fittest City in the U.S. (ACSM American Fitness Index, 2020)
#4 Greenest City in the U.S. (Zippia, 2020)
#1 Best Place to Retire (Money, 2020)
#1 Best Place in the U.S. for Raising Children (DiversityDataKids.com, 2020)
#1 Best College Football Town in America (Sports Illustrated, 2019)

Madison's technology economy is growing rapidly, and the region is home to the headquarters of Epic Systems, Exact Sciences, Sub-Zero, and Land's End, as well as many biotech, healthcare

IT, and health systems startups. In the Fall of 2023, Wisconsin was designated as a Tech Hub by the Economic Development Administration (EDA), which resulted in a grant award of up to $75 million to help accelerate growth of the state's bio health industry. Phase 2 of the Wisconsin Biotech hub was announced in July 2024, resulting in $49 million in additional funding to help drive transformative medical innovation, workforce development, and critical job growth across Wisconsin. One of the three technology projects of this proposal is the Wisconsin Health Data Hub, led by researchers from the University of Wisconsin, School of Medicine and Public Health. Madison is the second largest city in the state, with a city population of approximately 260,000 and regional population of over 1 million. The city is within easy driving range of Chicago and Milwaukee. Madison is home to one of the strongest local food scenes in the country. From April to October, the Capitol Square hosts the largest producer-only farmers market in the country. The city is rich with cultural offerings in the arts.

Compensation:

Negotiable - Employees in this position can expect to receive benefits such as generous vacation, holidays, and sick leave; competitive insurances and savings accounts; retirement benefits.

Required Qualifications:

- Completion of Diagnostic Imaging Physics Residency training, OR at least 2 years' post-PhD Clinical MRI Physics or similar Research or Industry MRI Physics experience by the start date of the position.
- Training and/or experience conducting Quality Assurance / Quality Control of Magnetic Resonance (MR) equipment, including knowledge of requirements associated with maintaining accreditation

Preferred Qualifications:

- Minimum of 2 years' experience post-PhD conducting Quality Assurance / Quality Control of Magnetic Resonance (MR) equipment, including knowledge of requirements associated with maintaining accreditation, by the start date of the position.
- Certification in MRI Physics by the American Board of Medical Physics, in Diagnostic Medical Physics by the American Board of Radiology, or by a similar medical physics certifying body, is encouraged.
- Excellent communication skills are needed for interacting with a variety of MRI users including technologists, radiologists, residents, fellows, and researchers.
- Evidence of writing or assisting in writing grant applications to secure funding in support of MRI research.

CHS Faculty: The chosen applicant will participate in administrative, and committee work to support the clinical and scholarly missions of UW Health and the School of Medicine and Public Health. An essential part of these duties will be working in a collegial relationship with other faculty members.

Education:
PhD in Physics, Medical Physics, Biomedical Engineering, or a closely related field is required by the start date of the position.

How to Apply:
Please click the "Apply" button to start the application process by either selecting "I am a current employee" or "I am not a current employee" in the UW Application System.
You will be required to submit the following documents along with your application:

- Current Curriculum Vitae (CV)
- Cover Letter detailing training and experience related to the required and preferred qualifications referenced in the job posting.

Applicants that do not submit the required materials will not be considered.

The application reviewers will be relying on written application materials to determine which qualified applicants will advance in the recruitment process. Selected applicants will be notified to participate further in the selection process directly. References will be requested of final candidates. All applicants will be notified after the search is complete and a candidate has been selected.

The deadline for assuring full consideration is January 7, 2025**;** however, the position will remain open, and applications may be considered until the position is filled.

The Department will not be able to support a request for a J-1 waiver. If you choose to pursue a waiver and apply for our position, neither the UW nor UWMF will reimburse you for your legal or waiver fees.