Advanced Artificial Intelligence in Medical Imaging

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WISCONSIN
UNIVERSITY OF WISCONSIN-MADISON

Current Employees: If you are currently employed at any of the Universities of Wisconsin, log in to Workday to apply through the internal application process.

Job Category:
Faculty

Employment Type:
Regular

Job Profile:
Professor

Job Summary:

The Department of Radiology offers a unique opportunity and is seeking a dynamic physician-scientist or scientist with interest in building a research program at the intersection of Artificial Intelligence and medical imaging to join our faculty on the Tenure Track.

- The candidate will collaborate closely with a multidisciplinary team of radiologists, scientists, researchers, and collaborators from across the University to develop and implement a cutting-edge AI-medical imaging-focused research program.
- Applicants will be considered for the titles listed: Professor, Associate Professor or Assistant Professor. The title is determined by the experience and qualifications of the finalist.

Key Job Responsibilities:

Research Responsibilities:

The successful candidate will build an innovative multidisciplinary research program that involves the development, evaluation, and/or clinical implementation of novel AI and machine learning applications involving any domain of radiology and medical imaging. Intersections with our existing strong collaborations within the Department of Medical Physics, Department of Population Health, Carbone Cancer Center, and College of Engineering are encouraged. The successful candidate, as part of the RISE community, will have ample interactions with a variety of teams of clinicians and researchers from across the University of Wisconsin-Madison campus to form unique interdisciplinary collaborations. The ultimate goal will be to create a research program that can serve as a hub for innovative AI-medical imaging research initiatives for both internal and external collaborators.

Clinical Responsibilities:

If a physician-scientist, interpret and report imaging studies and/or image-guided procedures depending on the sub-specialty section(s) of clinical expertise.

Teaching Responsibilities:

Participate in the teaching efforts within the Department of Radiology. Teaching responsibilities will include lectures, conferences, and daily training of residents, fellows, and medical students (if on clinical service).

Service and Administrative Responsibilities:

Participate in administrative and committee work to support the clinical and scholarly missions of UW Health and the School of Medicine and Public Health. Participate in interdisciplinary and collaborative research and education efforts with other departments,

schools, and colleges. Provide guidance and mentorship to junior researchers, postdoctoral fellows, and graduate students, fostering a collaborative and learning-oriented environment. Serve on research mentor committees as needed

Department:

Nestled on an isthmus between two picturesque lakes, Madison serves as the capital of Wisconsin and is the state's second-largest city. With a population of around 260,000 and a regional community exceeding one million, Madison is conveniently located within driving distance of both Chicago and Milwaukee. Known for its vibrant culinary scene, the city hosts the nation's largest producer-only farmers' market on Capital Square from April to October. Madison also boasts a wealth of cultural and artistic offerings.

Sports enthusiasts will find Madison a hub for athletics, particularly with its deep ties to the University of Wisconsin-Madison. The city is home to Forward Madison FC, its first professional soccer team, and the Madison Mallards, a collegiate wood-bat summer baseball league team.

Madison consistently ranks as one of the best places to live and work in the U.S. Recent accolades include:

- #1 Best Place to Live (Livability, 2022)
- # I City for Most Successful Women Per Capita (Forbes, 2019) #I 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)

This is position is part of the Wisconsin Research, Innovation and Scholarly Excellence (RISE) Initiative. Through accelerated and strategic faculty hiring, research infrastructure enhancement, interdisciplinary collaboration, and increased student and educational opportunities, RISE addresses-complex societal challenges of importance to the state, nation, and world. Building on UW-Madison's strengths, RISE expands the University's successful track record of connecting with communities and industry on collaborative solutions.

Over the next three academic years, UW-Madison will substantially increase current hiring levels, bringing 150 new RISE faculty to campus. Candidates hired through RISE will join a community of scholars working across disciplines, schools and colleges on research,

teaching, and outreach endeavors. The community will engage regularly in venues such as seminar series and colloquia to share ongoing projects and identify opportunities to work together. The University will support the community, facilitating access to research infrastructure, and funding to support broad and rich collaboration.

Further information regarding RISE can be found at: https://rise.wisc.edu/

Compensation:

Negotiable

Employees in this position can expect to receive benefits such as competitive salary, generous vacation, holidays, and sick leave; competitive insurances and savings accounts including retirement benefits along with generous academic support.

Required Qualifications:

- The successful candidate must be able to demonstrate that they have successfully obtained extramural funding with at least one NIH R01-level grant as Principal Investigator, or equivalent.
- Minimum of 4 years of experience with research at the intersection of artificial intelligence (AI) and medical imaging.
- Candidates with an MD degree should have completed a radiology residency program, subspecialty clinical fellowship, and also be board certified by the American Board of Radiology.
- WI medical license is required by start date of position, if a physician performing clinical work.

Preferred Qualifications:

All Faculty: The chosen candidate will teach medical students, residents, and fellows.

Education:

- MD, DO, or equivalent by start date is required by start date of position.
- PhD in data science or medical imaging field such as Biomedical Engineering, Informatics, Data Science or Medical Physics is preferred but not required.

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.

Applicants are to submit a cover letter and resume detailing their training and experience relating to the required and preferred qualifications referenced above. The application reviewers will be relying on written application materials to determine which qualified applicants will advance in the recruitment process. The following materials are required with your application:

- Current Curriculum Vitae (CV)
- A Cover Letter briefly describing your qualifications and experience.

Top candidate(s) will be asked to submit the following as the recruitment process advances:

- Statement of research (maximum of 3 pages) describing your current and future directions
- Three (3) professional references, including your current or most recent supervisor. References will not be contacted without prior notice.

We will notify selected applicant(s) to participate further in the selection process directly. All applicants will be notified after the search is complete and a candidate has been selected.

The deadline for assuring full consideration is January 1, 2026; however, the position will remain open, and applications may be considered until the position is filled.

Contact Information:

Melissa Kuester, mkuester@uwhealth.org

Relay Access (WTRS): 7-1-1. See RELAY_SERVICE for further information.

Institutional Statement on Diversity:

Diversity is a source of strength, creativity, and innovation for UW-Madison. We value the contributions of each person and respect the profound ways their identity, culture, background, experience, status, abilities, and opinion enrich the university community. We commit ourselves to the pursuit of excellence in teaching, research, outreach, and diversity as inextricably linked goals.

The University of Wisconsin-Madison fulfills its public mission by creating a welcoming and inclusive community for people from every background - people who as students, faculty, and staff serve Wisconsin and the world.

For more information on diversity and inclusion on campus, please visit: Diversity and Inclusion

The University of Wisconsin-Madison is an Equal Opportunity Employer.

Qualified applicants will receive consideration for employment without regard to, including but not limited to, race, color, religion, sex, sexual orientation, national origin, age, pregnancy, disability, or status as a protected veteran and other bases as defined by federal regulations and UW System policies. We promote excellence by acknowledging skills and expertise from all backgrounds and encourage all qualified individuals to apply. For more information regarding applicant and employee rights and to view federal and state required postings, click here.

To request a disability or pregnancy-related accommodation for any step in the hiring process (e.g., application, interview, pre-employment testing, etc.), please contact the Divisional Disability Representative (DDR) in the division you are applying to. Please make your request as soon as possible to help the university respond most effectively to you.

Employment may require a criminal background check. It may also require your references to answer questions regarding misconduct, including sexual violence and sexual harassment.

The University of Wisconsin System will not reveal the identities of applicants who request confidentiality in writing, except that the identity of the successful candidate will be released. See Wis. Stat. sec. 19.36(7).

The Annual Security and Fire Safety Report contains current campus safety and disciplinary policies, crime statistics for the previous 3 calendar years, and on-campus student housing fire safety policies and fire statistics for the previous 3 calendar years. UW-Madison will provide a paper copy upon request; please contact the University of Wisconsin Police Department.
UW-Madison is an equal opportunity/affirmative action employer. We promote excellence through diversity and encourage all qualified individuals to apply.
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