

# MEDICAL PHYSICS, MS

The Department of Medical Physics at UW–Madison’s School of Medicine and Public Health is the first medical physics department in the United States and home to one of the top medical physics programs in North America. Achievement of the MS degree in this department reflects a strong education in the fundamental physics and engineering of diagnostic and therapeutic systems. Graduates are prepared for teaching and research positions in universities, national laboratories, and the medical and nuclear technology industries, as well as for admission into medical physics residency programs to become board-eligible for clinical medical physics positions.

Faculty in the department focus on discoveries in imaging and therapy systems that translate into new clinical techniques or the development of new products through industry collaboration and venture entrepreneurship. The department’s faculty expertise spans fields such as x-ray physics, computed tomography (CT), magnetic resonance imaging (MRI), positron emission tomography (PET) imaging, biomagnetism, ultrasound, radiation dosimetry, radiation treatment planning, and radiobiology. Students benefit from a curriculum that provides in-depth training in these specialties, supported by access to sophisticated clinical and research resources. Collaborations with departments like Radiology, Human Oncology, and Biomedical Engineering further enrich the training experience and foster an interdisciplinary approach to medical physics.