Master of Science in Magnetic Resonance in Medicine

Magnetic Resonance Imaging is one of the four most important technological inventions in the 20th century that forever changed the face of modern medicine. It is an essential tool for the diagnosis of cancer, neurological disorders, and cardiovascular disease. The Master of Science in Magnetic Resonance in Medicine (MSMRM) is a unique 20-month accredited degree program that focuses on technical and practical fundamentals of magnetic resonance, including MR physics, technical developments, research methods, artificial intelligence/deep learning, and clinical applications. Students become part of a dynamic, world-class medical center where interactions with leading clinicians and scientists and clinical emphasis through focused rotations are integrated with scientific coursework throughout the entire program.

“At Cedars-Sinai, we offer a wide range of opportunities in both medical and clinical research, where we teach fundamental and translational aspects of imaging technologies. Our distinguished faculty members are dedicated to ensuring high-quality education and mentorship for all our students and take their education and career development seriously. We believe in faculty mentorship as a vital part of your education and advocate for student leadership experiences. We are proud to offer you a warm, safe and supportive community of scholars that fosters diversity, organizational integrity and cultural individuality. We look forward to learning and growing with you!”

Debiao Li, PhD
Director, Biomedical Imaging Research Institute
Endowed Karl Storz Chair, Minimally Invasive Surgery in Honor of Dr. George Berci
Cedars-Sinai Medical Center
Professor, Medicine and Bioengineering, University of California, Los Angeles
Past President, International Society for Magnetic Resonance in Medicine

Prospective Students

Students with a bachelor's degree in engineering or physics, or health care professionals (MD, RN, RT) who seek advanced MR physics training are encouraged to apply. The MSMRM degree will prepare students for careers such as clinical MR scientist, research/applications scientists, or research associates. It is also excellent advanced training for current health care professionals and PhD or MD candidates.

Curriculum

Year 1 focuses on didactic courses, such as Biomedical Signals and Imaging, Physiological Imaging, Advanced MR Imaging, and Advanced Image Analysis, Artificial Intelligence and Deep Learning, and clinical and research lab rotations. During Year 2, students will engage in an independent thesis project, hands-on internship with industry partners, and American Board of Medical Physics (ABMP) certification preparatory workshops.

Faculty

Courses are taught by leading experts who are dedicated to training tomorrow’s leaders in imaging. Most faculty members have National Institutes of Health research grants and joint appointments with clinical departments at Cedars-Sinai, which contributes to the broad clinical exposure that is a hallmark of this master’s program.

About Cedars-Sinai

Providing healthcare for more than 100 years, Cedars-Sinai is one of the most dynamic and highly renowned medical centers in the world. Cedars-Sinai is ranked nationally in 11 specialties and has been named #6 on to the “Honors Roll” in U.S. News & World Report "Best Hospitals 2021-22." Cedars-Sinai is a major teaching hospital and is widely known for its national leadership in clinical care, biomedical research, and graduate medical education.

Application

Applications for Fall 2022 entrance are available online and are due by July 30, 2022. The program is approved for F-1 student visas. International students are encouraged to apply.

More Information

Please visit: Master of Science in Magnetic Resonance in Medicine or contact Dr. Wafa Tawackoli, MSMRM Program Co-Director Phone: (424) 315-2807 Email: Wafa.Tawackoli@csmc.edu

Biomedical Imaging Research Institute
Graduate School of Biomedical Sciences