

MEDICAL IMAGING, MAGNETIC RESONANCE IMAGING, ADVANCED TECHNICAL CERTIFICATE



Program Information

Are you fascinated by technology and the inner workings of the human body? If so, a career in computed tomography, mammography, or Magnetic Resonance Imaging (MRI) may be the right path for you. These imaging professionals are qualified to provide patient imaging using technology and equipment for CT, mammography, and MRI under the supervision of a medical doctor to examine anatomic structures.

The San Jacinto College Advanced Imaging Modalities program:

- Prepares the American Registry of Radiologic Technologists (ARRT) registered students to work in advanced modality positions in hospitals and other health care facilities through various clinical rotations;
- Educates students to produce images used for assessment and diagnosis of various medical conditions; and
- Encourages students to be clinically competent, possess critical thinking skills, communicate effectively, and exhibit ethical and professional behavior.

Career Opportunities

Employment outlook is excellent, and many of our students gain field employment before completing this certificate program.

Graduates of this program are employed in hospitals, clinics, and imaging centers.

Earning Potential

Radiologic Technologist: \$65,416 per year¹

¹ Source: texaswages.com (<http://texaswages.com>), median salary Gulf Coast region, 2019

For more information, students may contact 281-476-1871 or Saleha.zafar@sjcd.edu.

Links

Application Deadlines are as followed:

October 1 - Spring

July 1- Fall

Application procedures

- Apply for admission to San Jacinto College.
- Submit an application for the Advanced Imaging Modality program.
- Submit copies of transcripts from the Radiography or Sonography program completed.

Must be a registered technologist with ARRT certification or a registered sonographer with ARDMS certification by the first class date to participate in the program. Please review the links on the Advanced Imaging Modalities (<https://www.sanjac.edu/program/advanced-imaging-modalities/>) webpage for program information for all Advanced Imaging Modality programs and programs applications.

Campus

Central Campus

Information

Medical Imaging Technology consists of three Associate of Applied Science (AAS) degrees and four certificate programs.

The AAS degree programs are:

- Medical Radiography,
- Diagnostic Medical Sonography, and
- Invasive Cardiovascular Technology.

The advanced or enhanced certificate programs are:

- Computed Tomography,
- Invasive Cardiovascular Technology,
- Magnetic Resonance Imaging, and
- Mammography.

Students selected for any of the Medical Imaging programs are required to submit a physical exam prior to admission. This physical exam must be consistent with the requirements of the teaching hospitals and agencies the student is assigned during clinical assignments and the performance standards required to function as a student imaging technologist. The exam will also include documentation of any communicable diseases along with immunity to Rubella, Measles, Mumps, Varicella, and Hepatitis B. Additionally, completion of an updated Tetanus vaccine, an annual TB screening, and a seasonal flu vaccine are required.

In addition to meeting all other requirements, a criminal background check and drug and alcohol screening are required for all health science students attending imaging courses, and are required prior to admission to the program. Students entering a Medical Imaging program will also be required to show proof of health insurance and current CPR (American Heart Associate-Health Care Provider) certification. Students may contact the Medical Imaging department for details regarding the criminal background check and drug screening requirements.

Campus

Central Campus

Advanced Technical Certificate

The MRI program builds a foundation of general principles for learning to operate magnetic resonance imaging equipment. The program focuses on building a sound understanding of the underlying scientific theory and routine clinical practice leading to the MRI certification exam. The MRI program also emphasizes the fundamental principle of magnetism and interaction of living matter with magnetic fields as well as introducing the concepts and scientific principles employed in MRI.

Minimum Program Admission Criteria

Applicants must be American Registry of Radiologic Technologies (ARRT) registered in one of the following: radiography, nuclear medicine, or radiation therapy or registry eligible and hold a Texas Medical Board Medical Radiologic Technologist license. The applicant must complete and submit an application to the Program Coordinator or Medical Imaging department. Upon provisional acceptance, the applicant must also submit required health records, proof of health insurance, CPR certification (American Heart Association-Health Care Provider), criminal background check, and drug and alcohol screen as stated for all Medical Imaging students. Acceptance into the MRI program is determined after review of the application and completion of requirements. Prospective participants should call the Medical Imaging department at 281-476-1871 for additional information.

Students selected for any of the Medical Imaging programs are required to submit a physical exam after they have received provisional acceptance to the program. The department will provide instructions. This physical exam must be consistent with the requirements of the teaching hospitals and agencies the student is assigned during clinical assignments and the performance standards required to function as a student imaging technologist. The exam will also include documentation of any communicable diseases along with immunity to Rubella, Measles, Mumps, Varicella, and Hepatitis B. Completion of an updated Tetanus, an annual TB screening, and the current seasonal flu vaccine are required. In addition to meeting all other requirements, students entering a Medical Imaging program will be required to submit a criminal background check and drug and alcohol screening completed by designated companies, show proof of health insurance, and CPR (American Heart Association-Health Care Provider) certification.

Plan of Study

Central Campus

AMRAD-MRI

First Term		Credits
MRIT 2330	Principles of Magnetic Resonance Imaging	3
MRIT 2334	Magnetic Resonance Equipment and Methodology	3
MRIT 2360	Clinical I - Radiologic Technology/Science - Radiographer	3
MRIT 2461	Clinical II - Radiologic Technology/Science - Radiographer	4
RADR 2340	Sectional Anatomy for Medical Imaging	3
Credits		16
Total Credits		16

Capstone Experience: MRIT 2461 Clinical II - Radiologic Technology/Science - Radiographer