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 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 various anatomic structures in the body.

The advanced imaging modalities program at San Jacinto College:

• Prepares the ARRT registered students to work in advanced modality positions in hospitals and other health care facilities through a variety of clinical rotations;

• Educates students to produce images used for assessment and diagnosis of various medical conditions; and

• Encourages students through a variety of methods to be clinically competent, possess critical thinking skills, communicate effectively, both written and orally, and exhibit ethical and professional behavior.

Career Opportunities
Employment outlook is excellent and many of our students gain employment in the field prior to completion of this certificate program.

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

Earning Potential
Radiologic Technologist median salary: $61,892 per year

1 Source: texaswages.com, Gulf Coast region, 2017

For more information contact 281-476-1871 or melissa.ledesmazermeno@sjcd.edu (cassandra.gossett@sjcd.edu).

Links
Application Deadlines are as followed:

Oct. 1st for Spring
April 1st for Summer
July 1st for Fall

Application procedures

• Apply for admission to San Jacinto College
• Submit an application for the Advance Modality programs to the program coordinator.
• Submit copies of transcripts from the Radiography program completed.

Must be a registered technologist with the ARRT and licensed by the Texas Medical Boards by the first class date to participate in the program. Please review the links below for program information for all Advance Modality programs and Advance Modality programs-application.

Advance Modality Program information (https://www.sanjac.edu/sites/default/files/media-file/Advanced%20Modality%20Program%20information%202018.pdf)

Application (https://publications.sanjac.edu/areas-study/health-sciences/medical-imaging-magnetic-resonance-advanced-technical-certificate/APPLICATION_FORM.pdf)

Information
Medical imaging technology consists of three Associate of Applied Science (AAS) degrees and four certificate programs.

The degree programs include:

• 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, and Varicella. Additionally, completion of the Hepatitis B series along, updated Tetanus, an annual TB screening, and annual flu vaccine is required.

In addition to meeting all other requirements, a criminal background check and drug 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. Please contact the medical imaging department for details about the criminal background check and drug screening requirements.

**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 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, instructions will be provided.

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, and Varicella. Completion of the Hepatitis B series along with updated Tetanus, an annual TB screening and 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 screening completed by designated companies, show proof of health insurance, and CPR (American Heart Associate- Health Care Provider) certification. A criminal background check and drug screening are required for all health science students attending imaging courses, and are required prior to admission to the imaging programs.

**Plan of Study**

**Central Campus**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MRIT 2330</td>
<td>Principles of Magnetic Resonance Imaging</td>
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</tr>
<tr>
<td>MRIT 2334</td>
<td>Magnetic Resonance Equipment and Methodology</td>
<td>3</td>
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<tr>
<td>MRIT 2360</td>
<td>Clinical I - Radiologic Technology/Science - Radiographer</td>
<td>3</td>
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<tr>
<td>MRIT 2461</td>
<td>Clinical II - Radiologic Technology/Science - Radiographer</td>
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