

# MEDICAL IMAGING, COMPUTED TOMOGRAPHY, ADVANCED TECHNICAL CERTIFICATE

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

## Earning Potential

Radiologic Technologist: \$65,440 per year<sup>1</sup>

<sup>1</sup> Source: [texaswages.com](http://texaswages.com) (<http://texaswages.com>), median salary Gulf Coast region, 2021

For more information, students may contact 281-476-1871 or CT Clinical Coordinator Albert Garcia at [albert.garcia@sjcd.edu](mailto:albert.garcia@sjcd.edu) or [advancedimagingmodalityprograms@sjcd.edu](mailto:advancedimagingmodalityprograms@sjcd.edu)

## Links

Application procedures

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

Must be a registered technologist with ARRT certification and licensed by the Texas Medical Board by the first class date to participate in the program. Please review the links on the San Jacinto College Medical Imaging (<https://www.sanjac.edu/programs/areas-of-study/health/medical-imaging/>) webpage for program information for all Advanced Imaging Modality programs and programs applications.

## Campus

Central Campus

## Information

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

The AAS degree programs are:

- Medical Radiography,
- Diagnostic Medical Sonography

The advanced or enhanced certificate programs are:

- Computed Tomography,
- 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. Clinical affiliates may require additional immunizations, titers, and documentation.

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



## Program Information

Upon completion of the Computed Tomography program an Advanced Technical Certificate will be awarded. Computed tomography technologists are imaging professionals qualified to operate specialized radiographic equipment and utilize computer processing to create cross sectional images of the human body. These images are utilized for the assessment of anatomy and diagnosis of various medical conditions. The San Jacinto College's Computed Tomography program will provide the imaging professional with the required structured education and clinical experience to be eligible to take the American Registry of Radiologic Technologists (ARRT) advanced certification in Computed Tomography (CT) exam. Individuals credentialed by an approved certification organization in the field of Radiology, Nuclear Medicine, or Radiation Therapy are eligible to apply to the program.

The Computed Tomography program at San Jacinto College:

- Prepares the ARRT registered students to work in an advanced modality position in hospitals and other health care facilities through a variety of clinical rotations;
- Educates students to produce diagnostic images used for assessment and diagnosis of various medical conditions;
- Encourages students through a variety of methods to be clinically competent, possess critical thinking skills, communicate effectively in both written and oral modalities, and exhibit ethical and professional behavior; and
- Prepares the student to take the ARRT computed tomography certification examination and enter the workforce with the skills to work independently as Computed Tomography technologist.

## Career Opportunities

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

to the program. Students entering a Medical Imaging program will also be required to show proof of health insurance and current CPR (American Heart Association-Health Care Provider) certification. Students may contact the Medical Imaging department for details regarding the criminal background check and drug screening requirements.

Students enrolling into San Jacinto College programs with external learning experiences (i.e., clinical, practicum, externship, cooperative, etc.) will be required to comply with the immunization requirements and policies of the clinical/external learning sites to engage in all clinical/external learning experiences. Vaccination requirements at clinical/external learning sites are implemented pursuant to the independent authority of such facilities and are not mandated by San Jacinto College. Failure to meet the immunization requirements mandated by clinical/external learning sites may limit a student's ability to complete the program and/or may delay the student's graduation date. San Jacinto College does not process exemptions, and students should address potential vaccination exemptions directly with the clinical/external learning site.

## Advanced Technical Certificate

Computed Tomography (CT) utilizes specialized radiographic equipment to produce detailed imaging scans of the body. The purpose of the CT program is to educate and train the registered radiologic technologists in all areas of CT with the intent to graduate competent candidates for the ARRT post-primary certification. The CT program includes an advanced type of health professions work-based instruction that assists students to synthesize new knowledge, apply previous knowledge, and gain experience performing examinations. While enrolled in the CT program, practical experience is simultaneously related to theory.

## Minimum Program Admission Criteria

Applicants must have graduated from a JRCERT-accredited radiography, nuclear medicine, or radiation therapy program and hold a certification from the American Registry of Radiologic Technologists (ARRT). Applicants must also hold a Texas Medical Board Medical Radiologic Technologist License. The student must complete and submit an application to the Medical Imaging department. Upon acceptance to the program, the student 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. Clinical affiliates may require additional immunizations, titers, and documentation. Acceptance into the Computed Tomography program is determined after review of the application and completion of requirements. Application to the program does not guarantee acceptance due to limited clinical availability. The Computed Tomography program is structured for students to complete the certificate in one semester. Department Chair approval may be granted for two semesters with special circumstances. Prospective participants should email [Albert.Garcia@sjcd.edu](mailto:Albert.Garcia@sjcd.edu) or [advancedimagingmodalityprograms@sjcd.edu](mailto:advancedimagingmodalityprograms@sjcd.edu) or call the Medical Imaging department at 281-476-1871 for additional information.

In accordance with Texas House Bill 1508, the College informs all students in this program who may have a criminal background that a criminal history could keep graduates from being licensed by the state of Texas. Students with any questions about their background and licensure may speak with the Department Chair.

## Plan of Study

AMRAD-CT

First Term		Credits
CTMT 2332	Principles of Computed Tomography	3
CTMT 2336	Computed Tomography Equipment and Methodology	3
CTMT 2360	Clinical I - Computed Tomography Technology/Technician	3
CTMT 2461	Clinical II - Computed Tomography Technology/Technician	4
RADR 2340	Sectional Anatomy for Medical Imaging	3
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>16</b>

**Capstone Experience:** CTMT 2461 Clinical II - Computed Tomography Technology/Technician

Students must earn a C or better in all Computed Tomography (CTMT) and Medical Imaging (RADR) courses; the student will not be permitted to continue or to graduate from the program until that course has been repeated and a grade of C or above has been earned.