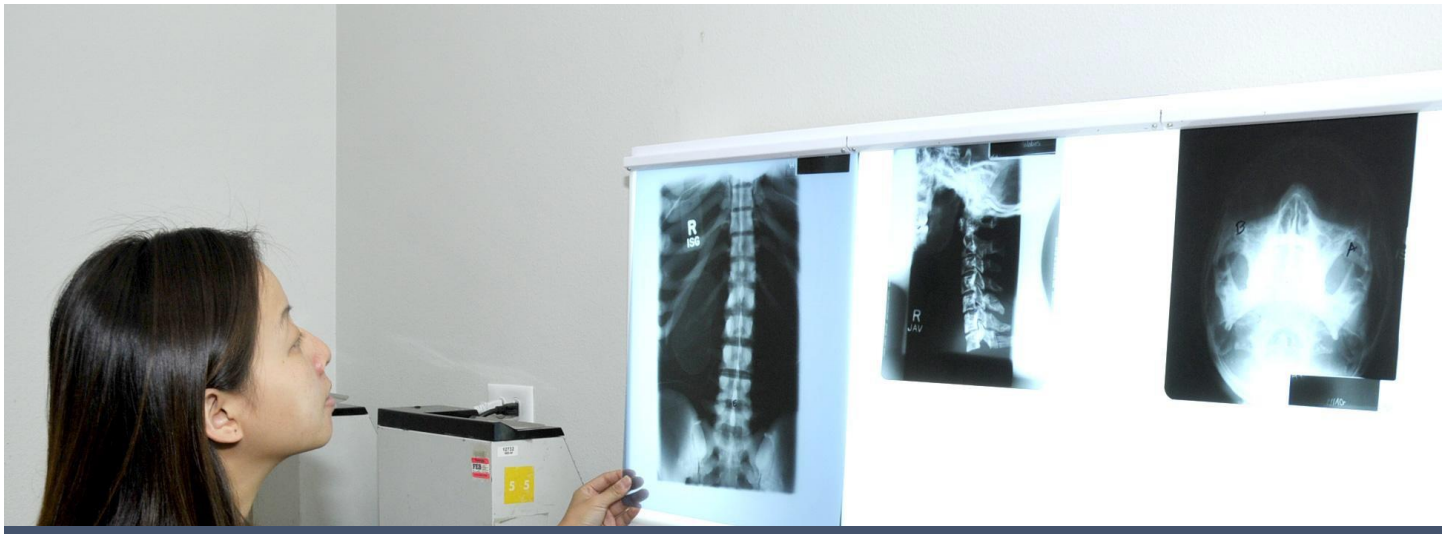
Radiologic Technology



What Do They Do?

Take x rays and CT scans or administer nonradioactive materials into patient's blood stream for diagnostic purposes.

How Much Do They Make?

Median Salary

$56,600 $95,800/Yr

$27.21 $46.08/Hr

How Many Jobs in CA?

540/Yr

Projected New Jobs Annually In CA

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Sample Job Duties

• Review and evaluate developed x-rays, video, or computer-generated information to determine if images are satisfactory for diagnostic purposes.
• Operate or oversee operation of radiologic or magnetic imaging equipment to produce images of the body for diagnostic purposes.
• Use radiation safety measures and protection devices to comply with government regulations and to ensure safety of patients and staff.
• Position imaging equipment and adjust controls to set exposure time and distance, according to specification of examination.

RADIOLOGIC TECHNOLOGY, AS

Technology and Health Division
Degree S1206
The Radiologic Technology program, which is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), is designed to prepare students to function as certified radiologic technologists. Students will gain knowledge and understanding of the diagnostic uses of x-ray, as well as the technical skills to use x-ray equipment in both laboratory and clinical settings. The courses are developed to enable students to operate x-ray equipment, assist in the diagnosis of disease, and to observe proper medical ethics. Students will learn the nature of radiation, the principles of electricity, the structure of x-ray machines, and the operation of a clinical x-ray department.

To remain in the program, students must maintain a grade of "C" or better in all courses.

Upon completion of the Associate in Sciences degree in Radiologic Technology, graduates are eligible to apply for the registry examination through the American Registry of Radiologic Technologist and the California Certification of Radiologic Technology. This is a licensed profession, and a valid Social Security number is required to obtain state certification and national licensure.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/instruction/outcomes/sloinfo.html) for this program.

Required Courses

RAD 1A	Clinical Experience 1A	5
RAD 1B	Clinical Experience 1B	3
RAD 2A	Clinical Experience 2A	5
RAD 2B	Clinical Experience 2B	3
RAD 3A	Clinical Experience 3A	7.5
RAD 3B	Clinical Experience 3B	3
RAD 3C	Clinical Experience 3C	7.5
RAD 4	Clinical Experience 4	4.5
RAD 30	Radiographic Pathology	1.5
RAD 31	Fluoroscopy and Radiobiology	4
RAD 32	Digital Imaging in Radiology	2
RAD 50	Introduction to Radiologic Science and Health Care	3
RAD 61A	Theory of Radiologic Technology	4
RAD 61B	Radiographic Procedures I	3
RAD 61C	Radiographic Procedures I Laboratory	1.5
RAD 62A	Theory of Radiologic Technology	4
RAD 62B	Radiographic Procedures II	3
RAD 62C	Radiographic Procedures II Laboratory	1.5
RAD 63	Theory of Radiologic Technology	4
RAD 64	Theory of Radiologic Technology	4
RAD 91	Patient Care in Radiologic Sciences	3
Total Units		77

Admission Requirements

In addition to meeting Mt. San Antonio College's academic standards for admission, applicants must be in good standing and satisfy the following requirements:

1. File a college application and be accepted as a student at Mt. San Antonio College.
2. Take the college placement examination which is used as an indicator. If you have already taken a college placement test exam within the past two years at another school, arrange to have your scores forwarded to the Health Careers Resource Center. (If you were tested at Mt. San Antonio College, the Health Careers Resource Center will obtain the test scores as long as an "Application for Admission" is on file with the Admission and Records Office.) Arrangement should be made with the Service Center to Schedule a date and time to take the college placement examination if required. The Assessment Center is open Monday through Friday. You may contact them at (909) 274-7500 ext. 4265. For students who possess a college degree, the English placement test is not required, however, it will be necessary for a student to obtain two official copies of the college transcript showing the degree issued. One official transcript must be sent to Health Careers Resource Center and the other to Admission and Records. If the courses were taken and /or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts. Request the transcript for the Division Office be addressed as follows:

   Mt. San Antonio College
   Health Careers Resource Center, Bldg. 67B, Room 250
   Radiologic Technology Program
   1100 North Grand Avenue
   Walnut CA 91789-1299

3. Forward two official transcripts of all coursework completed (high school, and other than Mt. San Antonio College courses). One transcript must be sent to the Health Careers Resource Center and the other to Admission and Records.
4. Submit an application for the Radiologic Technology Program to the Health Careers Resource Center (909) 274-4788. All applications are dated upon receipt in the Health Careers Resource Center. A program begins each summer intersession.
5. Applicant must be 18 years of age upon entrance into the program.
6. High school graduate or equivalent. Please provide copy of diploma as proof of high school completion.
7. Possess a valid Social Security Card. This is a licensed profession, and a valid Social Security Number is required to obtain state certification and national licensure.
8. Complete all AS degree General Education requirements to include program prerequisites listed below (9) before admission to the program. Students are required to make an appointment with an educational advisor to review general education requirements for graduation.
9. Complete the following prerequisite courses with a minimum grade of "C" in each course. Students must complete prerequisite courses before admission to the program. Students may seek variances for courses completed at other institutions. Course must be an equivalent course or higher to the courses listed below and transcripts/course outlines must be reviewed by the Department Chair of the appropriate department to seek approval.

ANAT 10A Introductory Human Anatomy 4

or ANAT 35	Human Anatomy	
ANAT 10B	Introductory Human Physiology	4
or ANAT 36	Human Physiology	
PHYS 1	Physics	4
MEDI 90	Medical Terminology	3

Acceptance Requirements

1. A mandatory orientation meeting with the Radiologic Technology Department will be held during the spring semester. You will be contacted with date and time of orientation once you have been accepted.
2. A physical examination, including certain immunization and drug testing is required as part of the physical examination for all radiologic technology students before entrance into the clinical setting. Forms and information will be provided at time of orientation.
3. All students will be required to pass a criminal background check prior to entering the clinical education phase (a valid Social Security number is required to complete this process.)

Selection Procedure

Selection of students is based upon the completion of the above admission requirements and date of application. The Department will make every effort to notify the applicant of the acceptance by mail no less than one month prior to beginning of a program.

Program Completion Requirements

1. All students entering the Radiologic Technology Program **must** complete all the major course requirements and the general education requirements necessary to complete the Associate degree before a certificate documenting completion in Radiologic Technology will be given. This certificate will permit the student to apply for the registry exam through the American Registry of Radiologic Technologist and the California Certification of Radiologic Technology.
2. In addition to the major requirements and general education, students must also complete a course in venipuncture for radiographers. This course is offered through Continuing Education but may be taken elsewhere with prior approval from the department.
3. A course in mammography is also offered in the final semester for graduate students and licensed radiographers. This course is optional.

Working Environment

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agent, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires decisions/actions critical to patient safety
- Exposed to products containing latex

Required Skills and Physical Abilities

In order to ensure student and patient safety and welfare, the radiologic technology student must have sufficient strength, motor coordination, manual dexterity, intellectual capacity, and sensory functions to be able to:

1. Transport, move, lift, or transfer patients from a wheelchair or gurney to an x-ray table or to a patient bed.
2. Lift arms above the head to move the x-ray tube assembly.
3. Move, adjust, and manipulate portable and fluoroscopic equipment according to established procedures and standards of speed and accuracy while conducting radiographic examinations.
4. Maneuver well enough to physically protect himself or herself from injury caused by patients exhibiting aggressive behaviors.
5. Physically place patients in the proper positions for the examination according to established procedures and standards of speed and accuracy.
6. Rapidly respond to situations involving the health and safety of patients, providing physical and emotional support to the patient during radiographic procedures, providing basic first aid and emergency care in the absence of or until a physician arrives.
7. Function adequately under stressful situations related to technical and procedural standards of patient care situations.
8. Hear well enough (average 30 decibels for both ears) to respond to directions or calls for help from individuals remote from the location of the student.
9. Speak English clearly enough to explain and direct procedural information to patients, and to communicate with physicians, technical staff, and faculty. Students for which English is a second language may be required to complete a verbal communication assessment prior to entering the program.
10. Calculate and select proper technical exposure factors according to the individual needs of the patient's condition and requirements of the procedure with speed and accuracy.
11. View and evaluate the recorded images of a radiograph for the purpose of identifying proper patient positioning, accurate procedural sequencing, proper exposure (and/or "s" number), and other established technical qualities.

English Language Skills

Although proficiency in English is not a criterion for admission into the Radiologic Technology Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

The Radiologic Technology program is accredited by The Joint Review Committee in Radiologic Technology (JRCERT).

Contact:
The Joint Review Committee in Radiologic Technology (JRCERT) 20 North Wacker Drive, Suite 2850 Chicago, IL 60606-3182 (312)704-5300 http://www.jrcert.org/