
Medical Imaging

Radiology Technicians, X-Ray Technicians, and Nuclear Medicine Technologists are all joined by some further sub-specialties such as Mammography Technicians in being specially prepared to do work around medical imaging. While all work in imaging, the types of procedures and scope of work may vary. An X-Ray Technician has a more limited scope of work than Radiology Technicians, and Nuclear Medicine is a specialized area of radiology.

Common Qualifications

Most states require a specific training program or nationally recognized certification (or both) as part of their licensure requirements. Experience and credit hours are often clearly defined.

Examples of License Titles

These are commonly licensed occupations. In the national occupational license database, there are 127 licenses coded to Radiologic Technologists and Technicians or Nuclear Medicine Technologists, representing 46 states and territories. Most have multiple licenses, with an average of 2.8 distinct licenses per state. Most states (41) have a Radiology Technician license, while Nuclear Medicine Technologists are also common (23). Some states also separately license X-Ray Technicians or Mammography Technicians.

Most common license titles:

Licensed Radiological Technologist
Medical Imaging
Limited Radiographer
Nuclear Medicine Technologist
X-Ray Technician

Outlier license title examples:

Chiropractic X-Ray Technician Registration
Bone Densitometry Technologists

Examples of License Boards

Typically licenses are issued by the Department of Health but often have a Division or Board that focuses on Radiology or Imaging.

ONET codes

29-2034.00 Radiologic Technologists and Technicians

Take x-rays and CAT scans or administer nonradioactive materials into patient's bloodstream for diagnostic or research purposes. Includes radiologic technologists and technicians who specialize in other scanning modalities.

29-2033.00 Nuclear Medicine Technologists

Prepare, administer, and measure radioactive isotopes in therapeutic, diagnostic, and tracer studies using a variety of radioisotope equipment. Prepare stock solutions of radioactive materials and calculate doses to be administered by radiologists. Subject patients to radiation. Execute blood volume, red cell survival, and fat absorption studies following standard laboratory techniques.

Related Occupations

There are a lot of medical assistant jobs that may overlap or work closely with these occupations. There are also the doctors they work with. There also seem to be some commercial applications of imaging that overlap or have similar names.

Associated Certifications

- Certified Bone Densitometry Technologist**
- Certified Clinical Densitometrist**
- Certified Radiological Technologist**
- Registered Technologist - Computed Tomography**
- Cardiac Interventional Radiography**
- Registered Technologist - Breast Sonography**
- Registered Technologist - Breast Sonography**
- Registered Technologist - Bone Densitometry**
- Registered Technologist - Bone Densitometry**
- Registered Technologist - Vascular-Interventional Radiography**
- Registered Technologist - Vascular-Interventional Radiography**
- Registered Radiologist Assistant**
- Registered Technologist - Radiography**
- Registered Technologist - Radiography**
- Registered Technologist - Radiation Therapy**
- Registered Technologist - Radiation Therapy**
- Registered Technologist - Nuclear Medicine Technology**
- Registered Technologist - Nuclear Medicine Technology**
- Registered Technologist - Magnetic Resonance Imaging**
- Registered Technologist - Mammography**
- Registered Technologist - Mammography**
- Registered Technologist - Computed Tomography**
- Certified EKG Technician**
- Certification in Magnetic Resonance Imaging Physics**
- Vascular Access-Board Certified**
- Certification in Radiation Protection**
- Certified Imaging Informatics Professional**

Certified Densitometry Technologist
Radiology Practitioner Assistant
Certified Radiology Administrator
EKG Technician Certification
Certificate of Completion - Critical Care Ultrasonography
Nuclear Medicine Advanced Associate
Nuclear Cardiology Technologist
Sonography Principles and Instrumentation
Certified Nuclear Medicine Technologist
Nuclear Cardiology Technologist
Positron Emission Tomography
Positron Emission Tomography
Industrial Radiography Radiation Safety Personnel - X-Ray
EKG Technician
Magnetic Resonance Imaging Technologist
Certified Medical Dosimetrist
Registered Technologist - Sonography
Registered Technologist - Sonography
Certification in Medical Health Physics
Certified PACS Associate