



IMAGING TECHNOLOGY

Individuals working in this field use imaging technology to diagnose and treat medical conditions. Technological improvements have expanded both the roles of personnel and the process involved in imaging the interior of the human body.

Careers within this section include:

Dosimetrist

Nuclear Medicine Technologist

Radiation Therapist

Radiologic Technologist

Sonographer



Dosimetrist

What would I do?

Dosimetrists work with the radiation oncology team to determine radiation dose distributions, dose calculations, and treatment plans for patients. They have knowledge of the clinical importance of radiation oncology treatment, machines and equipment. Some are also involved in the research, development and implementation of new radiation techniques.

Where would I work?

Dosimetrists work in hospitals, cancer treatment centers, medical research laboratories, and medical schools. They must be able to work well and maintain concentration under stressful conditions.

What would I earn?

\$72,000–87,000

What do I need to know?

Dosimetrists may choose to obtain their degree and training in one of two ways. They may acquire a bachelor's degree with a major in physical or biological sciences, followed by on-the-job training and work under the supervision of a Dosimetrist or Medical Physicist for two or more years. Or they may choose to obtain an Associate or Bachelor of Science, or a Bachelor of Arts degree in a field other than physical or biological sciences, followed by on-the-job training and work under the supervision of a Dosimetrist or Medical Physicist for a minimum of four years.

What schools can I attend?

At the current time there are no academic institutions in New Hampshire offering a program for Dosimetrists. In the past, New Hampshire students have attended out-of-state schools such as Labouré College in Boston, MA.



Where can I find more information?

American Association of Medical Dosimetrists
One Physics Ellipse
College Park, MD 20740
(301) 209-3320
www.medicaldosimetry.org

Medical Dosimetrist Certification Board
15000 Commerce Parkway, Suite C
Mt. Laurel, NJ 08054
(866) 813-6322
www.mdcb.org

Nuclear Medicine Technologist

What would I do?

Nuclear Medicine Technologists (NMTs) prepare and administer radiopharmaceuticals (radioactive materials) to diagnose and treat diseases. NMTs prepare patients for medical procedures and work under the supervision of a Board-certified physician. NMTs calculate dosages and administer medications to patients by mouth, injection or inhalation. NMTs must document the use and disposal of radioactive materials and follow safety regulations to limit radiation exposure.

Where would I work?

NMTs work in hospitals, private clinics, diagnostic centers, research facilities, and public-health departments. There is a potential for radiation exposure, but it is kept to a minimum through safety precautions.

What would I earn?

\$43,000–55,000

What do I need to know?

Nuclear Medicine Technologists may complete either a one- or two-year certificate program, a two-year associate's degree, or a four-year bachelor's degree. Certification is available through the Nuclear Medicine Technology Certification Board or the American Registry of Radiologic Technologists.

What schools can I attend?

At the current time there are no academic institutions in New Hampshire offering a program for Nuclear Medicine Technologists. In the past, New Hampshire

students have attended out-of-state schools such as Central Maine Medical Center in Lewiston, ME; Massachusetts College of Pharmacy & Health Sciences in Boston, MA; Salem State College in Salem, MA; Springfield Technical Community College in Springfield, MA; University of Massachusetts Medical Center in Worcester, MA; or University of Vermont in Burlington, VT.

Where can I find more information?

Joint Review Committee on Educational Programs in Nuclear Medicine Technology
#1 2nd Avenue East, Suite C
Polson, MT 59860-2320
(406) 883-0003
www.jrcnmt.org

Nuclear Medicine Technology Certification Board
2970 Clairmont Road, Suite 935
Atlanta, GA 30329
(404) 315-1739
www.nmtcb.org

Society of Nuclear Medicine - Technologist Section
1850 Samuel Morse Drive
Reston, VA 20190
(703) 708-9000
www.snm.org

Radiation Therapist

What would I do?

Radiation Therapists work under the supervision of Radiation Oncologists (physicians who use radiation to treat cancer). They administer radiation treatment to patients, care for patients who are being treated and monitor them for side effects. They also protect patients and themselves from unwanted radiation.

Where would I work?

Radiation Therapists work in hospitals, cancer-treatment centers, educational facilities, physicians' offices, and research laboratories. There is a potential for radiation exposure, but it is kept to a minimum through safety precautions.

What would I earn?

\$41,000–73,000

What do I need to know?

Radiation Therapists may complete either a one- or two-year certificate program, a two-year associate's degree, or a four-year bachelor's degree. Certification may be obtained through the American Registry of Radiologic Technologists.

What schools can I attend?

New Hampshire Technical Institute

Where can I find more information?

American Registry of Radiologic Technologists
1255 Northland Drive
St. Paul, MN 55120-1155
(651) 687-0048
www.arrt.org

American Society of Radiologic Technologists

15000 Central Avenue, SE
Albuquerque, NM 87123-3917
(505) 298-4500
(800) 444-2778
www.asrt.org

Radiologic Technologist

What would I do?

Radiologic Technologists may specialize in using a specific type of equipment or procedure that involves a specific body part. Among the specializations are mammography, computerized tomography (CT scan), magnetic resonance imaging (MRI), cardiovascular technology, trauma radiology, and pediatric radiology.

Where would I work?

Most Radiologic Technologists are employed in hospitals. Some work in urgent care centers, operating rooms, physicians' offices, and research centers. Others work on traveling vans that bring equipment to different hospitals each day.

What would I earn?

\$34,000–51,000

What do I need to know?

Radiologic Technologists complete a two-year associate's degree or a four-year bachelor's degree with didactic and clinical experience.

What schools can I attend?

Lebanon College
New Hampshire Technical Institute

Where can I find more information?

American Registry of Radiologic Technologists
1255 Northland Drive
St. Paul, MN 55120-1155
(651) 687-0048
www.arrt.org

American Society of Radiologic Technologists
15000 Central Avenue, SE
Albuquerque, NM 87123-3917
(505) 298-4500
(800) 444-2778
www.asrt.org

Joint Review Committee on Education in
Radiologic Technology
20 N. Wacker Drive, Suite 900
Chicago, IL 60606-2901
(312) 704-5300
www.jrcert.org



Sonographer

What would I do?

Sonographers, also known as Diagnostic Medical Sonographers, operate ultrasound equipment to produce images of internal structures that do not show on X-rays. The equipment used by Sonographers directs high-frequency sound waves into the area on the patient's body that result in images viewed on a television screen and printed digitally. These images are then used by physicians to make diagnoses. Sonographers prepare patients by explaining the procedure and positioning the patient.

Sonographers may specialize in examining specific areas of the body, such as neurosonology (brain), echocardiography (heart), obstetric/gynecology (uterus), vascular (arteries and veins), and ophthalmology (eyes).

Where would I work?

Sonographers may work in hospitals, clinics, laboratories, or physicians' offices. Some work freelance or for mobile services.

What would I earn?

\$39,000–63,000

What do I need to know?

Sonographers complete a one-, two-, or four-year program, receiving a certificate, an associate's degree, or a bachelor's degree. Certification is available through the American Registry of Diagnostic Medical Sonographers.

What schools can I attend?

New Hampshire Technical Institute

Where can I find more information?

American Registry of Diagnostic Medical Sonographers
51 Monroe Street
Plaza East One
Rockville, MD 20850-2400
(301) 738-8401
(800) 541-9754
www.ardms.org

Joint Review Committee on Education in Diagnostic
Medical Sonography
2025 Woodlane Drive
St. Paul, MN 55125-2995
(651) 731-1582
www.jrcdms.org

Society of Diagnostic Medical Sonography
2745 Dallas Parkway, Suite 350
Plano, TX 75093-4706
(214) 473-8057
(800) 229-9506
www.sdms.org