

# Imaging Technology

**I**ndividuals 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



## To be a successful Dosimetrist you should

- **Communicate well with people**
- **Be able to visualize materials**
- **Enjoy math and problem solving**
- **Have good concentration**



## 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?

\$72,500–\$87,200

## 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. In addition, they must complete on-the-job training and work under the supervision of a Dosimetrist or Medical Physicist for two or more years. Others 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. They must also complete on-the-job training and work under the supervision of a Dosimetrist or Medical Physicist, but 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.

Please contact your guidance office or career counselor for more information.

## Where can I find more information?

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

Medical Dosimetrist Certification Board  
PO Box 51627  
Albuquerque, NM 87181-1627  
(866) 813-6322  
[www.mdcdb.org](http://www.mdcdb.org)



## Nuclear Medicine Technologist



### To be a successful Nuclear Medicine Technologist you should

- **Communicate well with people, being especially compassionate about their health**
- **Be able to analyze visual material**
- **Understand mathematical concepts**
- **Have the capacity and knowledge to perform CPR**
- **Know how to be organized and to keep accurate records**

### 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 Radiologist. 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, 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?

\$43,846–\$54,849

### 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.

Please contact your guidance office or career counselor for more information.

### 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](http://www.jrcnmt.org)

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

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

# Radiation Therapist



To be a successful Radiation Therapist you should

- Have compassion and a personal touch
- Have patience and a flexible personality
- Be extroverted and able to communicate in a clear and concise manner
- Have an understanding of medical terminology



## 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 while they are receiving treatment, and monitor patients' 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?

\$40,913–\$58,801

## 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  
31 College Drive  
Concord, NH 03301-7412  
(603) 271-6484  
[www.nhti.edu](http://www.nhti.edu)

Please contact your guidance office or career counselor for more information.

## 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](http://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](http://www.asrt.org)



## Radiologic Technologist



**To be a successful Radiologic Technologist you should**

- **Be compassionate**
- **Be emotionally stable**
- **Have mechanical abilities and computer skills**
- **Have the ability to follow instructions**
- **Be able to multitask**
- **Be able to adapt according to patient's condition**
- **Be able to work as part of a team**

### **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, 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?**

\$33,758–\$45,052

### **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  
15 Hanover Street  
Lebanon, NH 03766  
(603) 448-2445  
[www.lebanoncollege.edu](http://www.lebanoncollege.edu)

New Hampshire Technical Institute  
31 College Drive  
Concord, NH 03301-7412  
(603) 271-6484  
[www.nhti.edu](http://www.nhti.edu)

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(505) 298-4500  
(800) 444-2778  
[www.asrt.org](http://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](http://www.jrcert.org)

# Sonographer



## To be a successful Sonographer you should

- Be interested in working with machines and equipment
- Have good communication skills
- Be able to put others at ease
- Be able to work independently
- Be a team player



## 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 soundwaves 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?

\$39,416–\$51,813

## What do I need to know?

Sonographers complete either a one-, two-, or four-year program, receiving either 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  
31 College Drive  
Concord, NH 03301-7412  
(603) 271-6484  
[www.nhti.edu](http://www.nhti.edu)

Please contact your guidance office or career counselor for more information.

## 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](http://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](http://www.jrcdms.org)

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