



YOUR CAREER IN RADIOLOGIC TECHNOLOGY

**Radiologic Technology
Program**

The mission and purpose of the Radiologic Technology Program is to provide a quality education that enables our students to provide exceptional and compassionate care to all we serve and become a valuable member of the healthcare team.



Why Choose Radiologic Technology for Your Career?

Completion of the AnMed Radiologic Technology Program can open the door to a rewarding and satisfying career in the field of health care.

While many radiologic technologists who complete the AnMed Radiologic Technology Program choose to work in x-ray and imaging departments of hospitals and medical centers, some seek opportunities in other healthcare settings including physicians' offices, mobile imaging companies, research centers, or public health clinics. The AnMed Radiologic Technology Program does not guarantee employment.

With additional experience and education, a graduate of the radiologic technology program can take advantage of opportunities in advanced areas of radiology such as nuclear medicine, radiation therapy, medical sonics, computerized tomography and magnetic resonance. Credits earned in the program may be transferable to a college or university.

Salaries for radiologic technologists vary nationwide. However, they are comparable to or slightly higher than those of many other allied healthcare professionals. The range is reflective of education and experience.

The field is challenging and interesting, and for the ambitious individual, it offers a lifetime career with many options as a technologist, educator, researcher, manager or director.

About AnMed

AnMed is a comprehensive health care system located in Anderson, South Carolina. The mission of AnMed is to provide exceptional and compassionate care to all we serve. The vision of AnMed is working together for better health and a better life.

AnMed delivers a wide range of diagnostic services, surgical and medical treatments and advanced rehabilitative therapies, as well as individualized well and sick care. It also operates highly regarded teaching programs.

The system is comprised of more than 60 delivery sites, including three licensed hospitals.

AnMed Medical Center

461+ bed acute-care hospital (800 North Fant Street)

AnMed Rehabilitation Hospital

Inpatient rehabilitation hospital (1 Spring Back Way)



A leader in the provision of modern, innovative and comprehensive health and medical care, AnMed serves a community of more than 400,000 residents in Upstate South Carolina and Northeast Georgia.



AnMed Oglesby Center

Facility features outpatient surgery, laboratory, radiology and numerous physician practices in consolidated location (2000 East Greenville Street)

AnMed Orthopedics & Sports Medicine

Specialists and support staff bring the latest joint services and sports medicine treatments to Anderson. Care tailored to needs, whether that's minimally invasive procedures, injections or occupational therapy (100 Healthy Way, Suite 1200)

Radiology Is Integral to Patient Care

For its patients, AnMed offers a wide range of diagnostic and treatment services and has made significant investments in the latest digital technology. AnMed was the first hospital in the state to offer digital mammography; it is a national show site for GE's PACS (Picture Archiving Communication System) technology.

AnMed's Radiology Services department is an integral part of the care delivered throughout the entire facility.

From emergency medicine to surgical procedures to outpatient diagnostic procedures, radiologic technologists provide images that help diagnose everything from broken bones to extensive pathology.

Known for offering "virtual or real-time" radiology, the department offers virtually up-to-the-minute scans using the most advanced equipment available.

The Technologist's Duties

The radiologic technologist is a skilled professional who has learned to use various imaging modalities to provide services specified by a physician. The technologist's main concern is that of proper positioning of the patient and selecting the technical components to produce the best diagnostic image possible with the least amount of discomfort and risk to the patient.

As part of their specific responsibilities, radiologic technologists:

- Combine knowledge of anatomy with expertise in positioning and radiographic techniques to accurately demonstrate anatomical structures on an image receptor.
- Determine exposure factors to achieve optimum radiographic digital images with a minimum amount of radiation exposure to the patient.
- Provide excellent patient care while recognizing emergency patient conditions and, when necessary, initiating life-saving first aid.
- Critique and manipulate images with regard to technique, positioning and other pertinent technical qualities.
- Exercise discretion and judgment in the performance of procedures, always applying the principles of radiation safety for the protection of the patient, self and others.



AnMed's Radiologic Technology Education Program

AnMed Radiologic Technology Program is the only hospital-based radiography program in South Carolina, lending opportunity for students to learn imaging in the professional environment of the patient care centers. Upon satisfactory completion of the two-year course curriculum and terminal competencies, the student will receive a Certificate in Radiography and will be eligible to take the National Certification Examination, sponsored by the American Registry of Radiologic Technologists.

Students gain the knowledge, experience and competencies necessary to position patients, to operate and maintain equipment, and to critique the technical quality of the finished images.

The student is a part of the cutting edge of scientific progress, working with Digital Radiography imaging devices, PACS (Picture Archiving and Communications Systems), and the latest interventions in medical care.





Specific goals and student learning outcomes of the program:

- **Students will be clinically competent.**

Student Learning Outcomes:

- Students will apply positioning skills.
- Students will select technical factors.
- Students will utilize radiation protection.

- **Students will demonstrate communication skills.**

Student Learning Outcomes:

- Students will demonstrate written communication skills.
- Students will demonstrate oral communication skills.

- **Students will develop critical thinking skills.**

Student Learning Outcomes:

- Students will adapt standard procedure for non-routine patients.
- Students will critique images to determine diagnostic quality.

- **Students will model professionalism.**

Student Learning Outcomes:

- Students will demonstrate work ethics.
- Students will summarize the value of life-long learning.

Accreditation

The AnMed competency-based Radiologic Technology Program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The JRCERT is recognized by the U.S. Department of Education and the Council on Higher Education Accreditation to evaluate and accredit educational programs in radiography and radiation therapy, magnetic resonance, and medical dosimetry. JRCERT accreditation demonstrates that a program adheres to national educational standards required to prepare graduates to be eligible to practice in all 50 states.

Certification Process

To be eligible for the national certification exam and to become certified, students must meet the eligibility requirements of the American Registry of Radiologic Technologists (ARRT).

Qualifications and Admissions Standards

Applicants must meet specific requirements to be accepted into the Radiologic Technology Program. A point system is used to calculate qualifications. Requirements include:

1. Document a high school diploma, GED or equivalent. Preference is given to applicants who ranked in the upper 50%, have a GPA of 2.5 or higher on a 4-point scale, and have completed math and science courses such as biology, chemistry, physics, algebra, geometry, anatomy & physiology, and health occupations.

2. Submit official scores from an SAT, ACT, COMPASS or ASSET college entrance exam. Scores are:

- SAT – Minimum 400 for the Math or Verbal sections, recommended combined scored of 1000 (prior to 2005) or 1400 (after 2005)
- ACT – Minimum composite score of 19, recommended score of 22
- COMPASS/ASSET – scores should be comparable to scores recommended for health career students entering a technical college allied health program

3. Document higher education status via one of the following.

(A) Hold an associate’s degree or higher — in any major—and document:

- 3 credit hours – Mathematical/Logical Reasoning Course/ College Algebra – i.e., Math 109 (course numbers 100 level or less are not acceptable)
- 3 credit hours – Written/Oral Communications Course/College English or Public Speaking i.e., ENG 101 or SPC 205
- Two semesters of Anatomy and Physiology including labs, i.e., BIO 210 and BIO 211, are strongly recommended
- Preference is given to applicants with a strong background in college level science and math

—OR—

(B) Be enrolled in the Bachelor of Sciences in Medical Imaging Sciences Program at PennWest University (www.clarion.edu) or Bloomsburg University (www.bloomu.edu) and completed a minimum of 60 hours of credit required of the Medical Imaging Sciences Program.

—OR—

(C) Potential applicants who do not have an associate's degree or higher may enroll at Greenville Technical College and complete Phase I of the Radiologic Technology curriculum. General education



courses require a minimum grade of “C” or better and a cumulative technical GPA of 2.5 or higher. Phase I must be completed prior to starting the AnMed Radiologic Technology Program.

You must submit an official transcript from Greenville Technical College to document completion of Phase I. For more information, go to www.gvltec.edu/radtech/

—OR—

(D) Applicants who wish to obtain a bachelor's degree from Anderson University must:

- meet all requirements of Anderson University
- document completion of the general education courses identified by Anderson University with a grade of “C” or better, and
- receive a formal recommendation by the University Admissions Coordinator.

Upon completion of the AnMed Program and meeting the ARRT certification exam requirements, graduates will receive a Bachelor of Science in Health Science with a concentration in Medical Imaging. Additional information regarding this affiliation is available from <https://online.andersonuniversity.edu/undergraduate/medical-imaging>

4. Demonstrate personal traits of character, professionalism, leadership, self-motivation and empathy.

5. Meet and maintain the physical and technical standard criteria:

- Physical abilities
- Communication skills
- Mental abilities

6. As a condition of acceptance, applicants selected will be subject to AnMed's:

- Criminal background check
- Physical health screening including drug testing

Inquiries

An application form, along with an instruction sheet explaining how to apply to the program, is available directly from the program or may be printed from AnMed.org/radtech. Interested individuals may call the program's information line at (864) 512-2824 or send correspondence to:

AnMed Radiologic Technology Program
AnMed Medical Center
800 North Fant Street, Anderson, SC 29621

email: emilee.mckinsey@anmed.org
fax: (864) 512-1319

Admission Steps

- 1. Complete an application form and submit it along with a \$25.00 application fee.**
- 2. Submit high school transcript, college transcript(s) and scores from college entrance exam(s).** Only official transcripts and exam scores will be accepted.
- 3. All application forms and documents must be received by the February 28th deadline.**

The applicant will be notified when the application documents have been received and the application is complete. The applicant will be notified of scheduled information sessions and will be invited to attend a session.

Admission Process

Admission steps to follow after attending an information session include:

- 1. Complete the admission steps.**
- 2. Attend an information session.**
- 3. Interview with the Radiography Program Director & Clinical Coordinator.**
- 4. Attend a scheduled clinical observation in the Radiology Department.** Requires documentation of flu vaccination within the current flu season and a 2-step TB test within the past three months.

Students are accepted by an admissions committee based on a point system. Notice of acceptance is provided in writing after all admissions standards have been met. Selection is made without regard to the applicant's race, color, religion, age, gender, qualifying disability or national origin.

Qualified applicants with disabling conditions are encouraged to identify those conditions during the application process so Radiologic Technology Program officials can consider providing reasonable accommodations that comply with the technical standards for admission. A new class starts annually in July. Enrollment is limited by the Joint Review Committee on Education in Radiologic Technology.

Expenses

For tuition information please visit the web site at <https://anmed.org/medical-education/radiologic-technology-program/tuition-expenses>.

Tuition for the educational program is \$3,400 per year. This tuition is payable as follows:

- \$100 upon acceptance into the program
- \$3,300 at the beginning of the first year as a single payment or in three payments (\$1,100 due on July 1, August 1 and September 1)
- \$3,400 prior to starting the second year

A list of required textbooks for the two year program is provided. The student has the option to purchase textbooks from the vendor of choice. The cost varies; however, the total cost should not exceed \$1,000.

Meals and off-campus living arrangements are also the responsibility of the student.

The Radiology Program does not participate in the US Guaranteed Student Loan Programs (Title IV financial aid).

The Curriculum

The curriculum for the Radiologic Technology Program is based on two years of full-time didactic and competency-based clinical education. The AnMed Radiologic Technology Program does not claim or guarantee that credit earned while enrolled in the program will transfer to another institution.

The professional courses include, but are not limited to:

Introduction to Radiologic Technology

40 Clock Hours

Goals, philosophies and organization of the radiography program and Radiology Department



Medical Ethics/Patient Care and Legal Issues

120 Clock Hours

Ethical & legal responsibilities of a technologist, diversity, patient care skills, standard precautions, contrast media and pharmacology

Principles of Imaging and Image Analysis

200 Clock Hours

Principles of various imaging modalities; imaging processes for producing and evaluating high quality diagnostic images.

Anatomy and Physiology

220 Clock Hours

Human structure and function

Medical Terminology

90 Clock Hours

Language of medicine, medical symbols, terms and abbreviations

Radiographic Positioning and Procedures and Clinical Procedures & Competencies

2500 Clock Hours

Positioning methods for patients of all ages using routine and trauma/mobile applications. Clinical Experience: Under the supervision of clinical instructors and registered staff radiographers, students demonstrate competency, performing diagnostic procedures in the clinical environment of the Radiology Department.

Equipment and Instrumentation

80 Clock Hours

Radiation-producing radiologic equipment for diagnosis and treatment, interventional procedures and computer applications in radiology

Digital Image Acquisition and Display

50 Clock Hours

Factors that impact image acquisition, display, archiving and retrieval to include quality assurance and maintenance.

Radiation Protection

70 Clock Hours

Techniques and actions that assure the patient and technologist receive the least possible amount of radiation



Pathology

50 Clock Hours

Diseases and their effects on radiologic images

Radiation Physics

180 Clock Hours

Production and behavior of radiation, concepts of energy and matter; electrical circuitry

Radiation Biology

50 Clock Hours

Effects of radiation on biologic systems

Quality Assessment and Management Principles

20 Clock Hours

Methodologies for assuring compliance and continuous quality improvements in radiology

Scientific Writing

10 Clock Hours

This course offers the student an opportunity to research a topic of interest for the purpose of writing and presenting a technical paper. On a monthly basis the student is required to read articles from technical journals and submit abstracts. These assignments are designed to create and stimulate an interest in good written and oral communication skills.

- All Semesters – Journal Abstracts
- Second Semester – Technical Research
- Third Semester – Oral Presentation

Registry Preparation

20 Clock Hours

This course includes test-taking strategies, objective exams at the end of each semester, and practice exams during the fourth semester that cover an overview of all didactic subjects presented during the 24 month program.

Program Staff

Medical Director

Veena Mathur, M.D.

Program Director

Emilee McKinsey, M.S., R.T. (R)

Clinical Coordinator

Cydney King, B.S., R.T. (R)

Clinical Instructors

Tonya Cowan, R.T. (R)

Medley McIntosh, R.T. (R)

Lisa Moon, R.T. (R)

Ashley Mullinax, R.T. (R)

Chris Payne, R.T. (R)

Teresa Smith, R.T. (R)

In addition, various instructors provide classroom instruction on specialty areas, and staff radiographers, radiology nurses, and technologists from Nuclear Medicine, CT, MR, Medical Sonics, Radiation Oncology and other imaging specialties assist in providing clinical instruction.



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