Radiologic Technology is a health profession that involves producing diagnostic images of patient’s internal structures for use by the radiologist or referring physician in diagnosing medical problems and disorders. As a professional, the radiographer is required to observe the ethical and professional standards expected of all persons involved in caring for patients in health care settings.

How long is the program?
Columbia State offers a 22-month, full scope program in Radiologic Technology.

What does the program provide?
- Classroom instruction in crucial areas prior to clinical rotations.
- Hands-on training at clinical sites within approximately 60 miles of Columbia State.
- Clinical competencies that exceed American Registry of Radiologic Technologists requirements.
- Graduates experience excellent career mobility.
- Opportunities for introductory rotations in specialty modalities such as ultrasound, magnetic resonance imaging (MR), computed tomography (CT), radiation therapy, nuclear medicine, and cardiac catheterization.
- Encouragement toward life-long learning through involvement in local, state, and national conferences and organizations.

How is the job market?
Those qualified to perform more than one type of imaging procedure, for example MR, CT, and Mammography, will have the best employment opportunities. The American Society of Radiologic Technologists 2013 salary survey, based on survey responses, reports a national mean annual compensation of $53,680 and a mean in Tennessee of $46,750.

Salaries are not guaranteed and vary dramatically by area of the country, state, and community as well as setting (ie, hospital, clinic, or physician’s office.)

<table>
<thead>
<tr>
<th>Career</th>
<th>Beginning Salary</th>
<th>Experienced Salary Median</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiologic Technologists (TN)</td>
<td>$36,420</td>
<td>$54,020</td>
</tr>
<tr>
<td>Radiologic Technologists (US)</td>
<td>$37,060</td>
<td>$54,620</td>
</tr>
</tbody>
</table>

www.columbiastate.edu/radiologic-technology

Opportunities
Columbia State’s 22-month program prepares graduates for the national registry examination in radiography administered by the American Registry of Radiologic Technologists (ARRT). Graduates may pursue additional formal education (certificates, BS or MS degrees) at other institutions through traditional or online formats. Future employers may also offer on the job training in various specialty areas.
**RADIOLOGIC TECHNOLOGY**

**Major in Radiologic Technology (A.A.S.)**

(Designed for the student who does not intend to transfer into a baccalaureate degree program. Many B.S. Radiologic Science programs do accept the A.A.S. degree along with certification by the ARRT as part of their academic entry requirements.)

The total program is 22 months in length and requires clinical and didactic competency as outlined in the curriculum. Clinical competency is obtained through completion of practicum objectives in approved clinical education settings throughout middle Tennessee. Transportation to and from clinical education settings is the sole responsibility of each individual student.

Program enrollment is limited by clinical education settings capacity and interview or admission is not guaranteed. Formal interviews with the Radiologic Technology Advisory Committee are held in the spring each year. New classes begin the second summer term. Applicants should schedule a preliminary interview/orientation in the summer or fall to allow sufficient time for completion of all required forms prior to February 1 of the following year. Applicants with the highest combined academic potential scores and preliminary interview/orientation scores who have completed all admission requirements will be considered for interviews with the committee.

Following the formal interviews, applicants will be notified of their admission status by the Radiologic Technology department. Those students accepted to the program will receive instructions on how to complete these requirements prior to clinical orientation.

Criminal background checks and routine drug screening are requirements at most affiliated clinical training sites. Based on the results of the criminal background check or drug screen, an affiliated clinical site may determine to not allow a student’s presence at their facility. This could result in the inability to successfully complete the requirements of a specific course and the program. More information is available from the program director.

Notice of Felony or Misdemeanor Convictions

The American Registry of Radiologic Technologists (ARRT) has stringent rules regarding misconduct and eligibility to take the national registry exam. If you have been convicted of any felony or misdemeanor offense(s), you may complete the pre-application review process with the ARRT prior to program enrollment to avoid delays and uncertainty regarding certification eligibility. The pre-application review form is downloadable from the Ethics section of ARRT’s Web site at www.arrt.org or by phoning ARRT at (651) 687-0048. The application for certification by the ARRT asks the following questions: “Have you ever been convicted of a misdemeanor, felony, or a similar offense in a military court-martial?” “Have you had any license, registration, or certification denied revoked, suspended, placed on probation, or subject to discipline by a regulatory authority or certification board (other than ARRT)?” “Have you ever been suspended, dismissed, or expelled from an educational program that you attended in order to meet ARRT certification requirements?”

In the event that a student or graduate of the Radiologic Technology Program is concerned about ARRT eligibility, it is the sole responsibility of the student or graduate to certify eligibility with the ARRT.

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**Accreditation**

The Radiologic Technology Program is fully accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

Joint Review Committee on Education in Radiologic Technology
20 N. Wacker Dr., Suite 2850, Chicago, IL 60606-3182
312.704.5300 • www.jrcert.org

Accreditation guidelines concerning program requirements, standards, general information, etc., are contained in the Standards for an Accredited Educational Program in Radiologic Sciences published by the Joint Review Committee on Education in Radiologic Technology (JRCERT) and available in faculty offices and accessible via the JRCERT Web site at www.jrcert.org. The Standards and additional program information are available in the Radiologic Technology Applicant Handbook located Online at www.columbiastate.edu/radiologic-technology.

**Mission Statement**

We endeavor to provide educational experiences leading to success, professionalism, and opportunity in the radiologic sciences.

Fulfillment of the program’s mission is assessed by the degree to which the following goals and objectives are achieved by students, graduates, and/or the program:

**Goal 1:** Students will demonstrate clinical competence in the performance of diagnostic radiographic procedures

1.1 Students will accurately position patients for radiographic examinations.

1.2 Students will select appropriate exposure factors for radiographic exams.

1.3 Students will apply the principles of radiation protection to the patient, self and others.

**Goal 2:** Students will develop and demonstrate communication skills

2.1 Students will utilize acceptable verbal skills in the clinical setting.

2.2 Students will demonstrate oral and written communication skills.

**Goal 3:** Students will develop critical thinking and problem solving skills applicable to radiography

3.1 Students will modify routine imaging parameters based on patient condition and environmental conditions.

3.2 Students will evaluate images for diagnostic quality.

**Goal 4:** Students will exhibit professionalism

4.1 Students will exhibit desirable work ethic behaviors.

4.2 Students will develop the habit of lifelong learning.

**Goal 5:** Graduates will contribute to the needs of the medical
RADIOL OGY

5.1 Admitted students will successfully complete the program.
5.2 Graduates will successfully complete the national certification examination.
5.3 Graduates will accept positions in radiography and related modalities.
5.4 Graduates will express satisfaction with their radiography education.
5.5 Employers will express satisfaction with graduates as entry-level radiographers.

The program mission and goals are consistent with the mission and goals of the college. Achievement of the goals are measured by the program's Outcomes Assessment plan completed annually.

Admission Requirements

1. Meet all college general requirements for admission as a degree-seeking student as stated in the catalog and be admitted to the college.
2. Review “Programs with Special Admissions Requirements,” p. 20 in the Columbia State Catalog.
3. Completion of all required Learning Support courses in reading, writing, and math by the end of the fall semester prior to the year in which admission is sought.
4. ACT or SAT exam results are required of all applicants. Applicants must have an ACT composite score of 19 or higher (equivalent to an SAT score of 900 or higher).
5. Have earned a cumulative grade point average (GPA) of 2.5 or above on a 4.0 scale for academic subjects. The high school GPA is used for students who have earned less than 12 college credit hours. An applicant who has not earned 12 credit hours of college-level credit that has no high school GPA must have an average standard score of at least 450 on the GED or 45 on the HiSET.
6. Schedule, attend, and complete a preliminary interview/orientation. Go to www.columbiastate.edu/radiologic-technology and select "Preliminary Interview/Orientation Sign Up." Preliminary Interview/Orientation are conducted approximately every 10-14 days from late-July to early January. You should receive a ticket for the preliminary interview/orientation. Print this ticket to bring with you to the preliminary interview/orientation. Applicants will receive all paperwork and a full explanation of the program and profession. Attend a preliminary interview/orientation at the earliest possible date to give yourself ample time to submit required materials by the February 1 deadline.
7. Program application requirements listed above must be completed before February 1. This includes the two Letter of Recommendation forms provided at the preliminary interview/orientation, completion of the clinical observation assignment and review of the Radiologic Technology Applicant Handbook available Online at www.columbiastate.edu/radiologic-technology. The handbook contains the Radiologic Technology Student Policy Manual, a copy of the Standards adopted by the JRCERT, the Radiography Practice Standards, the ARRT’s Standard of Ethics, and an estimated cost sheet. The applicant must also return the observation documentation.
8. Applicants must be able to physically manipulate and operate equipment, manipulate patients, and visually assess patients, test results, and the working environment. They must be able to clearly communicate, both verbally and in writing, make appropriate judgment decisions in emergency or other situations, and demonstrate emotional stability and psychological health in day-to-day interaction with patients, their family members, and personnel.
9. In compliance with the Americans with Disabilities Act, students are encouraged to register with the Office of Counseling/Disability Services for possible assistance with accommodations. It is the student’s responsibility to voluntarily and confidentially provide appropriate documentation regarding the nature and extent of a disability. Students requesting accommodation are (strongly) encouraged to contact the office of Disability Services at (931) 540-2857 at the beginning of the semester.
10. College credit for Human Anatomy & Physiology I & II and the required college level math course (Elementary Statistics or Pre-Calculus Algebra) must be within the past five years to count toward the Radiologic Technology degree or the course(s) must be repeated.

Completion of the items listed above denotes consideration for an interview but in no way implies or guarantees an interview or admission to the program.

11. Once admitted, students are required to submit documentation of the following entry requirements prior to the first day of clinical assignment. If the documentation is not completed prior to the first day of clinical assignment, students will not be permitted to go to clinical.
   a. Health Requirements: All radiologic technology students must submit evidence of good health by returning a completed Physical Examination form. Forms are given to the student upon acceptance into the program. All students must have a:
      1. Documented negative TB skin test and/or chest x-ray yearly. TB skin tests must be within three months of the start of the program.
      2. Evidence of Immunity for:
         a. Rubella (positive titer).
         b. Varicella zoster (chicken pox) (positive titer).
         c. Rubeola titer (positive titer).
         d. Tetanus/diphtheria booster within the past ten years.
         e. Hepatitis B
         f. Seasonally current Influenza immunization
   b. Basic Cardiac Life Support (BCLS) Requirements: All students must submit evidence of a current BCLS certification (must include two-person CPR) for the health care professional. BCLS certification classes are offered by Columbia State Community College, health care organizations, or the American Heart Association.
   c. Malpractice insurance is required for all radiology clinical practicum courses. A group policy is available. The fee is assessed annually as a part of the registration fees.
   d. Health insurance is required. Students must provide evidence of health insurance coverage before clinical assignments may begin.
   e. Criminal background checks and routine drug screens are required at most affiliated clinical training sites as a condition of participation in clinical education. Based on
the results of these tests, an affiliated clinical site may determine to not allow your presence at their facility. This could result in the inability to successfully complete the requirements of a specific course and the program. More information is available from the program director.

f. Attend an educational session related to the benefits of the Hepatitis B vaccine and, if not already immunized, complete the vaccination series. Students are required to provide results of a titer documenting levels of immunity to program or institutional officials.

Admission Procedures

1. Submit the following to the Admissions office.
   a. Completed Application for Admission to the College.
   b. Official college transcripts from all colleges previously attended.
   c. High school transcripts or High School Equivalency Diploma - HSE (GED® or HiSET®).
   d. ACT or SAT exam results.
2. Schedule and attend an preliminary interview/orientation listed at www.columbiastate.edu/radiologic-technology.
3. Submit completed program application forms received at an preliminary interview/orientation.
4. If an applicant does not meet the admission criteria, he/she will be notified in writing. If the applicant wishes to complete his/her file and application to establish eligibility for consideration the following year, remaining requirements must be submitted and the program director must be notified of the intent in writing.

Continuation Requirements

In order to continue in the Radiologic Technology Program, students must meet the following academic requirements:
1. Earn a “C” or higher in each radiologic technology course and each required math and science course.
2. Maintain a minimum GPA of 2.0 after admission and prior to enrollment as well as during each term of enrollment in the program.
4. Enroll in all required general education courses during (or before) the semester listed in the curriculum outline.
5. Submit annual TB skin test results to the Health Sciences Records Clerk’s office in the William R. Walter Bldg.,on the Columbia campus.
6. Maintain evidence of uninterrupted medical insurance coverage in designated program/institutional offices.

Students who do not meet the continuation requirements will be dismissed from the Radiologic Technology Program. Students who have been dismissed from the program may be qualified to continue courses in the College, but will not be permitted to register in radiology courses without readmission to the program.

Readmission Requirements

Only one readmission into the Radiologic Technology Program is permitted. Readmission into the Radiologic Technology Program after dismissal is not guaranteed, regardless of the reason for dismissal. A student who wishes to apply for readmission must do so, in writing, within 90 days of dismissal from the program. Regardless of the reason for dismissal, it is the sole responsibility of the student to request readmission in writing to the program director. The advisory committee for the Radiologic Technology Program will make a readmission decision after reviewing all student records and interviewing the student.

Due to the rapid change of technology in the field of radiology:
1. If three or more years has elapsed since enrollment in the program, the radiology courses must be repeated.
2. If five or more years have elapsed since previous college enrollment or completion of the following courses, these requirements apply:
   a. Anatomy and Physiology courses must be repeated.
   b. Required college level math course (Elementary Statistics or Pre-Calculus Algebra) must be repeated.
   c. All current application/enrollment requirements will apply and must be met.
3. A Conference Record form completed upon the student’s dismissal from the program must be on file to be eligible for readmission.

Readmission Procedures

1. Submit a written readmission request to the program director within 90 days of dismissal from the program.
2. Provide written documentation to the Radiologic Technology Program director stating the reason(s) for withdrawal or failure and indicate actions the student has followed to ensure success in the program if readmitted. This documentation must be submitted before a student’s application for readmission will be considered.
3. The Radiologic Technology Program director will notify the student by mail when and where the interview will be held.
4. The Radiologic Technology Program director will notify the student by mail of his/her readmission status once the readmission process has been completed.

Program enrollment is limited by clinical education settings capacity and readmission will be considered only if there are positions available within the class.
Program Requirements

The courses below are applicable to degree requirements. Students may be required to take additional Learning Support courses.

Communications Requirement
ENGL 1010 or 1020 and
SPCH 1010 or 1030

Humanities/Fine Arts (Take 1 course)
ART 1030
ARTH 2010, 2020
ENGL 2130, 2230, 2330, 2920
HUM 1130, 1131
MUS 1030
PHIL 1030, 2030, 2033
THEA 1030

Natural Sciences Requirement (Take 2 courses)
BIOL 2010 and 2020

Mathematics Requirement (Take 1 course)
MATH 1530 or 1710

*Biology and math courses must have been completed no more than five years prior to start of the program.

Social/Behavioral Sciences (Take 1 course)
ECON 1010, 2010
GEOG 1010, 2010
PHED 2120
POL 201
POLI 1030, 2130
SOC 210
SOCI 1010, 1020, 2010

Core Courses
INF 1010
RAD 101, 106, 112, 113, 121, 122, 123, 190,
241, 251, 281, 291, 292, 294, 295

Readmission/Transfer Students: See details in catalog. All RAD courses must be repeated if three or more years have elapsed since prior enrollment.

For more information contact:
radtech@columbiastate.edu
or
Health Sciences Division office at 931.540.2600 or 931.540.2599
or
www.columbiastate.edu/radiologic-technology

Course Sequence

First Year – Summer Semester

____ RAD 101  Introduction to Radiography 2
____ RAD 112  Image Production I 2
____ Social/Behavioral Sciences 3

First Year – Fall Semester

____ RAD 113  Image Production II 2
____ RAD 121  Radiographic Positioning I 2
____ MATH 1530 Elementary Statistics or
MATH 1710 Precalculus Algebra 3
____ ENGL 1010 Composition I or
ENGL 1020 Composition II 3
____ BIOL 2010 Human Anatomy & Physiology I 4
____ INF 1010 Computer Applications 3

First Year – Spring Semester

____ RAD 106  Radiation Physics 2
____ RAD 122  Radiographic Positioning II 2
____ RAD 123  Contrast Media Procedures 2
____ RAD 190  Radiologic Practicum I 3
____ BIOL 2020 Human Anatomy & Physiology II 4
____ Humanities/Fine Arts 3

Second Year – Summer Semester

____ RAD 291  Radiologic Practicum II 6

Second Year – Fall Semester

____ RAD 241  Radiographic Special Procedures 2
____ RAD 292  Adv. Radiation Physics & Radiobiology 2
____ RAD 294  Radiologic Practicum III 8
____ SPCH 1010 Fundamentals of Speech Communication or
SPCH 1030 Argumentation and Debate 3

Second Year – Spring Semester

____ RAD 251  Survey of Medical & Surgical Diseases 2
____ RAD 281  Radiation Protection & Radiologic Seminar 2
____ RAD 295  Radiologic Practicum IV 8

TOTAL CREDIT HOURS  74

Requirements for Graduation include:
- earning 25% of total program credits in residence at Columbia State.
- GPA of at least 2.0 in program courses.
- cumulative GPA must be at least 2.0 or higher
- taking the Exit Exam.