

BE A PART OF

The Healthcare Industry

Make a Difference — Healthcare Careers

Healthcare is the largest and fastest-growing industry in the United States, where over 10 million workers are employed in more than 200 careers. In South Carolina, nearly 120,000 people are employed in the healthcare industry.

In the next 25 years, the number of people aged 65 or over in South Carolina is expected to double. The explosion of technology in healthcare and unprecedented aging population contribute to the national healthcare workforce shortage.

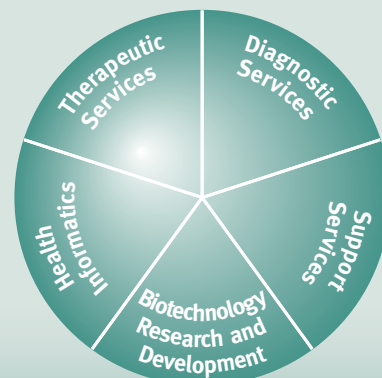
The current and projected healthcare workforce shortage is creating a healthcare crisis across the nation. Healthcare employment growth between 2006-2016 is projected to be 26 percent. A recent study commissioned by the American Hospital Association pointed out current vacancy rates that include 15 percent for imaging technicians, 13 percent for registered nurses, and 14 percent for pharmacists.

Healthcare careers offer opportunities across the board. While the number of physicians is growing, the jobs with high demand are those that play supporting roles in delivering healthcare. They include physician assistants, dental hygienists, home health aides, and nurses, among others.

People in healthcare careers must have a caring nature, and they need to understand science and how living things work. People in healthcare careers must pay close attention to getting the details right because so much is riding on what they do.

The Health Science Career Cluster

The health science career cluster orients students to careers that promote health and wellness, as well as diagnose and treat injuries and disease. Some of the careers involve working directly with people, while others involve research into diseases or collecting and formatting data and information. Work locations are varied and may be in hospitals, medical or dental offices, laboratories, medivac units, sports arenas, space centers, or within the community. The health science career cluster is divided into five majors, which are:



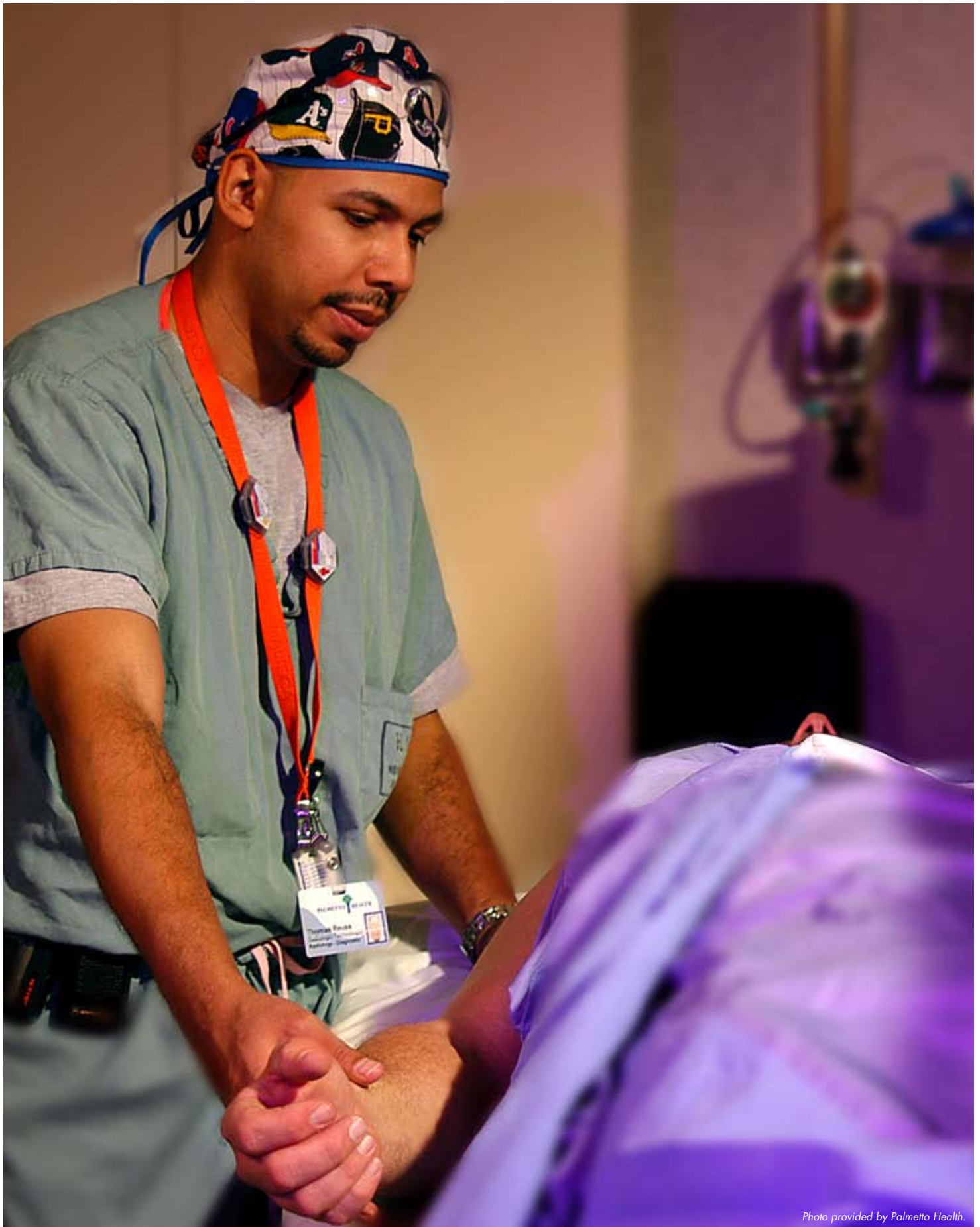


Photo provided by Palmetto Health.

THERAPEUTIC SERVICES

Careers in the therapeutic services major are focused primarily on changing the health status of the patient over time. Health professionals in this major work directly with patients; they may provide care, treatment, counseling and health education information.

Sample Occupations

Athletic Trainer	Physical Therapist
Certified Nurse Assistant	Physician
Dental Hygienist	Registered Nurse
Occupational Therapist	Respiratory Therapist
Paramedic	Surgical Technician
Pharmacist	Licensed Massage Therapist

Credentials

Many therapeutic careers include levels of therapists, technicians and assistants. Some careers, like nurse practitioner or physical therapist, require a master's degree. Other careers, like physician or dentist, require a doctoral degree.

Most therapeutic careers require certification, registration or licensure by a national professional organization or by the state in which these health professionals practice.

Employment Outlook

Based on an aging population, increased use of technology and a retiring workforce, the demand for healthcare workers will remain high through 2020. As the role of therapeutic careers changes, professionals in this major will find increased opportunities to work independently. Additionally, an increasing number of career opportunities are becoming available outside of the traditional hospital setting.

Dental Hygienist

Dental hygienists perform a crucial role in modern dental care. They are licensed practitioners who often are the first line of care. Many of their duties — including routine cleaning and other preventive measures — had been performed by dentists in the past. Now the hygienists perform those crucial tasks and support dentists in providing professional care to more patients, adding to the overall quality of dental care and to the productivity of their office.

Dental hygienists work in private practices, public health clinics, hospitals, prisons and public schools. The outlook for this field is excellent, and it is considered one of the fastest-growing occupations. Flexible work hours and part-time work opportunities are often available.

Educational Requirements

Dental hygienists typically are required to have at least a two-year associate's degree.

Related Occupations

Related occupations include dental assistant, dental hygiene educator, dental product sales representative and infection control consultants for dental offices.

Physical Therapists

Physical therapists evaluate and treat patients whose physical abilities have been impaired by injury, illness or deformity. Conditions requiring treatment by a physical therapist are those which affect the patient's muscles, nerves, joints and/or bones. The patient may have been in a serious car accident, have a life-long disability, or be an athlete recovering from an injury.

The goal of treatment is to increase strength, improve performance, decrease pain, adjust to the effects of a disability, and to regain as much normal activity as possible.

Methods of therapy include exercise, massage, heat, water, light, electricity and education. Physical therapists teach patients and/or families exercise programs, use of assistive devices (crutches, wheelchairs, artificial limbs, braces), self-help techniques, proper body mechanics and prevention of getting re-injured.

Physical therapists advance their careers by earning a master's degree leading to opportunities in teaching, research, or administrative positions.

Educational Requirements

Doctor of Physical Therapy degree

Careers Related To Physical Therapy

Physical Therapist Assistant — two-year associate's degree.

Physical Therapist Aide — usually learn skills on the job.



Photo provided by Sisters of Charity Providence Hospitals and University of South Carolina Cardiovascular Department.

THERAPEUTIC SERVICES

Primary Care Physicians

Primary care physicians usually see the patient first, manage his/her complaints, refer the patient to a specialist if needed, and provide continuing care for the patient. Physicians who provide this type of continuing patient care include: general and family practitioners, internists, pediatricians and obstetricians/gynecologists.

The physician performs activities to prevent, diagnose, cure, and alleviate sickness, diseases or injury. The physician also provides medical orders and guidance to nurses and other members of the healthcare team.

Physicians are extensively prepared with the skill and knowledge needed to meet the changing health needs of society. Their work is scientific and includes observation, as well as clinical and laboratory skills in the medical care of patients.

Physicians work in a variety of clinical areas, including rural and urban settings. Some physicians combine medical practice and research or teaching in medical schools and teaching hospitals.

Educational Requirements

Four-year bachelor's degree (pre-med college work), four-year Medical Doctor or Doctor of Osteopathy degree and three or more years of post-graduate residency training.

Careers Related to Medicine

Physician's Assisting – four-year degree.

Registered Nurses

Registered nurses are key members of the healthcare team who plan, implement and evaluate patient care. Nurses have the greatest responsibility for a patient's health and well-being. Nurses put into action the medical plan prescribed by doctors and rely on their own problem-solving and decision-making skills in providing nursing care to patients. Nurses interact with doctors and supervise ancillary healthcare providers.

Nursing focuses on teaching good health practices to patients of all ages, their families and others, in order to promote and maintain good health. Nurses use "high-tech" knowledge and advanced technology and equipment. Nursing offers the opportunity to work one-on-one with patients.

Nurses advance their career by earning a graduate degree leading to opportunities in management, teaching and advanced clinical specialties. Clinical specialties include certified RN anesthetist, nurse midwife, and nurse practitioner.

Educational Requirements

Four-year bachelor's degree

Two-year associate's degree

Both programs prepare you to take the state licensure examination required to practice as a registered nurse.

Other Options Related to Nursing

Licensed Practical Nurse — diploma program

Certified Nursing Assistant — certificate program

Respiratory Care Practitioners

Respiratory care practitioners treat and care for patients with cardio-pulmonary (heart-lung) problems that interfere with normal breathing. The therapist's work is vital to the health of the patient whether the treatments are temporary, emergency, or long-term. The patient may be a premature baby whose lungs are not fully developed, an older person who has been fighting lung disease for years, or someone recovering from a heart operation.

Under medical direction, respiratory care practitioners provide treatment ranging from control and prevention of illnesses such as asthma to emergency care of heart failure or shock. They work with special medications and sophisticated equipment to help patients breathe easier. Respiratory care practitioners advance their careers with additional education and by moving from providing general patient care to specialized intensive care. They also become supervisors, managers, or educators.

Educational Requirements

Two-year associate's degree in Respiratory Therapy

The associates degree program prepares you to take the state licensing examination required to practice as a respiratory care practitioner.

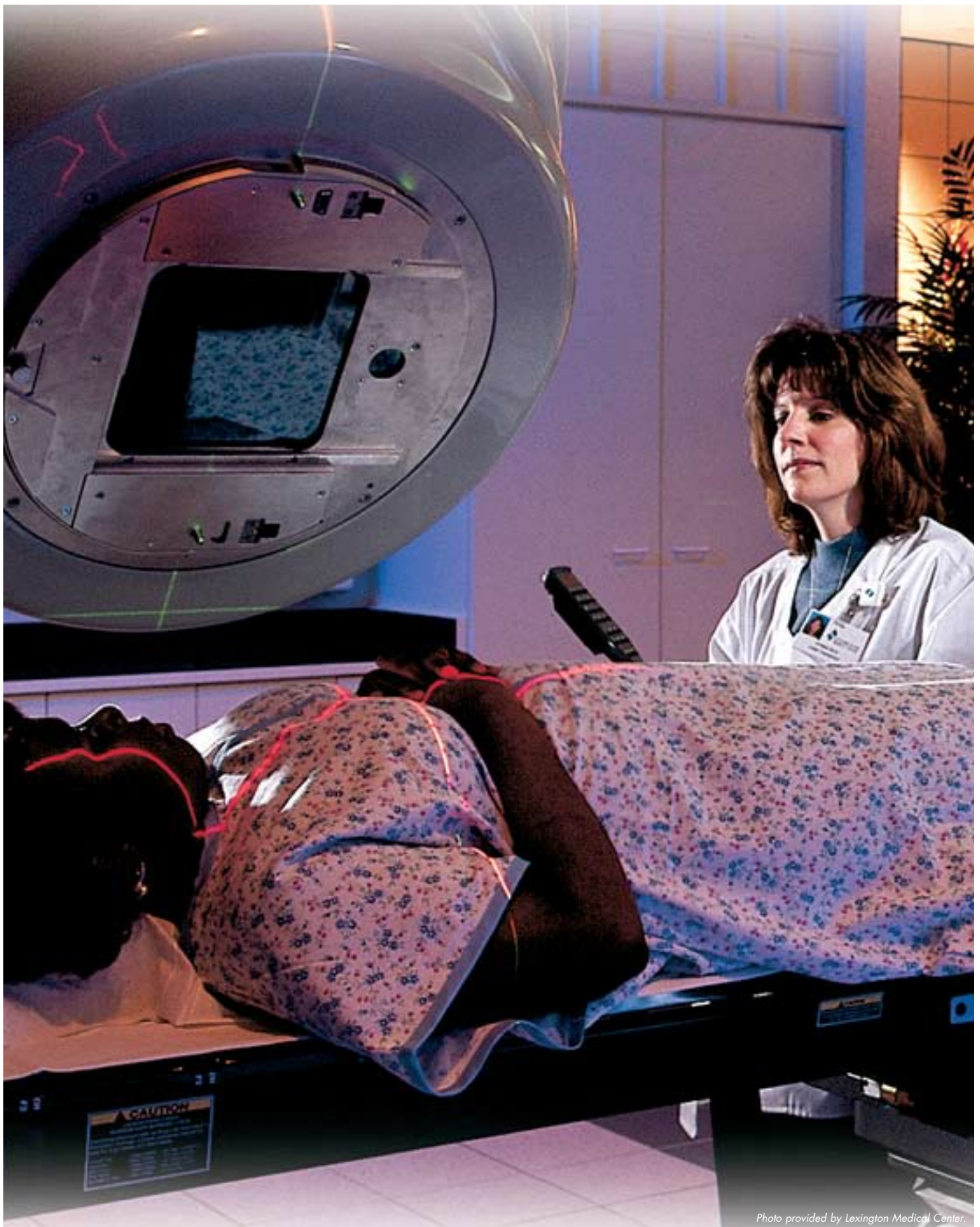


Photo provided by Lexington Medical Center.

DIAGNOSTIC SERVICES

Careers in the diagnostic services major use tests and evaluations that aid in the detection, diagnosis and treatment of diseases, injuries or other physical conditions.

Credentials

Most diagnostic careers require an associate or bachelor of science degree. Most states require certification, registration or licensure by a national professional organization. Many diagnostic careers require a specialty certification in addition to an existing credential.

Sample Occupations

Geneticist
Medical Lab Technologist
Nuclear Medicine Technologist
Pathologist
Phlebotomist
Radiologic Technologist

Employment Outlook

Based on an aging population and a retiring workforce, the demand for healthcare workers in diagnostic services will remain high through 2020. As technology advances, the need for additional training for diagnostic careers will increase. An increasing number of career opportunities are becoming available outside of the traditional laboratory setting.

Medical Lab Technologists

Medical lab technologists work in laboratories conducting a wide range of tests, which play an important role in detection and treatment of diseases and disorders. This “detective” work is important for diagnosing diseases. The tests or procedures performed range from simple to complex and often involve the use of microscopes, chemicals, computers and a variety of complex, state-of-the-art laboratory instruments.

Areas of Specialization

Hematology (human blood)
Serology (antibodies in the blood)
Microbiology (microscopic forms of disease)
Chemistry
Blood Transfusions
Microscopy (use of the microscope)

Educational Requirements

Four-year bachelor’s degree
Medical technologists must also pass a certification examination.

Other Options Related To Medical Technology

Medical Laboratory Technician — two-year associate degree

Medical Laboratory Assistant — one-year certificate
Medical laboratory assistants/ technicians work under the supervision of the medical technologists.

Radiologic Technologists — Radiologic technologists use complex technology and methods to produce images of bones and internal parts of the body. Under the direction of a physician, the technologist uses radiation and other imaging systems to detect and/or treat diseases, injuries and deformities.

Technologists prepare and position the patient for procedures, set-up and control the various x-ray equipment, control dark-room procedures, and evaluate the quality of the resulting film or image.

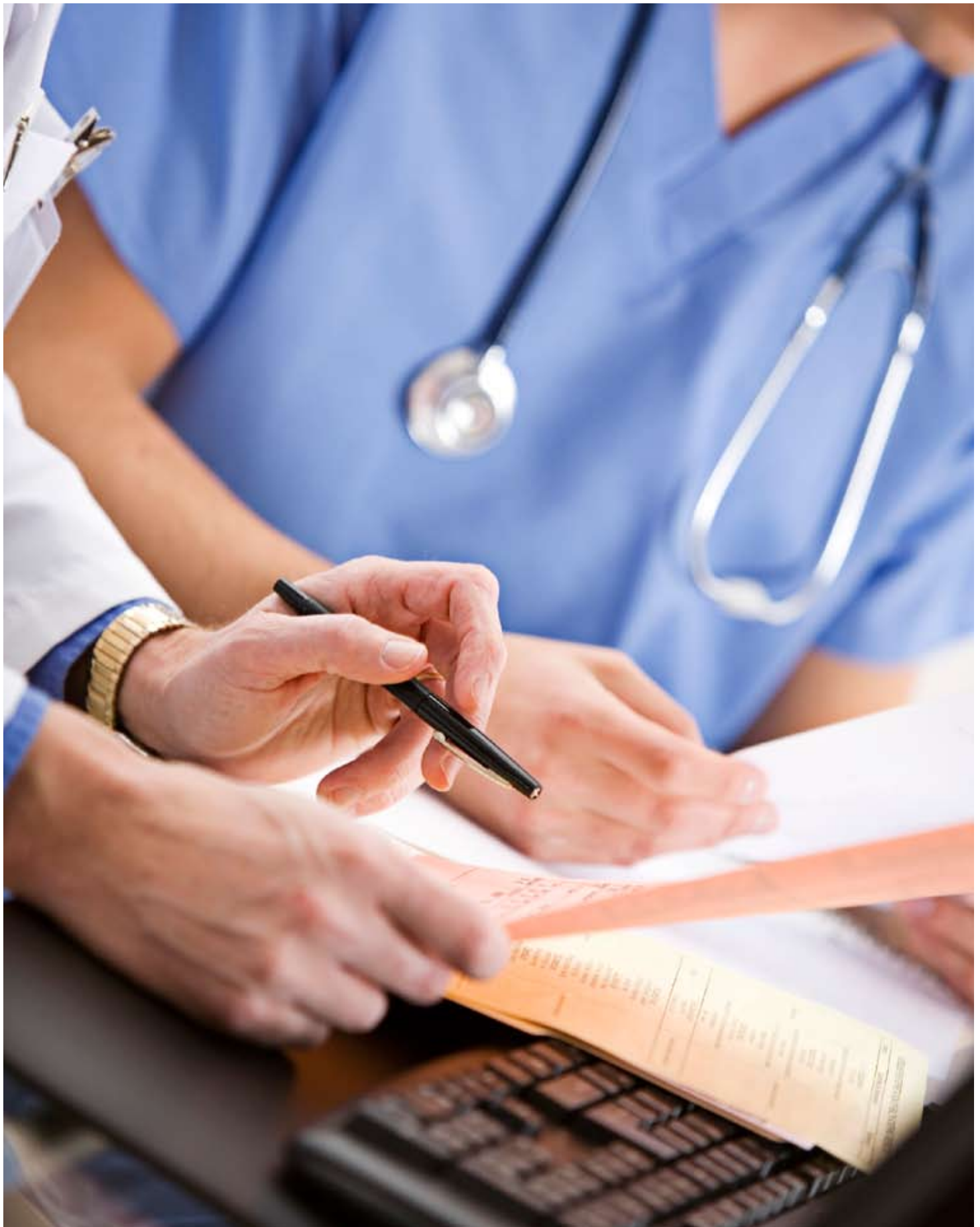
The radiologic technologist uses proper radiation protection devices and techniques that safeguard both the patient and the technologist from possible radiation hazards.

Areas of Specialization

Radiography
Diagnostic Sonography (ultrasound)
Heart Catheterization
Fluoroscopy Examinations
Computerized Tomography (CAT scans)
Magnetic Resonance Imaging (MRI)
Radiation Therapy
Mammography
Nuclear Medicine

Educational Requirements

Two-year associate’s degree



HEALTH INFORMATICS

Careers in the health informatics major include various levels of healthcare related employment. This major includes healthcare administrators who manage healthcare agencies, people who are responsible for managing patient data and information, financial information and computer applications related to healthcare processes and procedures.

Sample Occupations

Admitting Clerk
Data Analyst
Healthcare Administrator
Health Information Coder
Medical Biller
Medical Information Technologist
Medical Librarian
Medical Records
Reimbursement Specialist
Transcriptionist

Credentials

Some health informatics careers require an associate or bachelor's degree in computer science; however, many of these careers simply require on-the-job training and/or certification.

Employment Outlook

Based on an increasing reliance on electronic information, the demand for these workers will remain high through 2020.

Medical Records

Medical records professionals have the knowledge and skills to process, analyze and distribute healthcare information needed by the patients and healthcare facility. A medical record serves as a means of communication among all members of the healthcare team including doctors, nurses, technicians and others.

Information from medical records is also used in tracking disease patterns, providing information for health research, evaluating the quality of care, and evaluating insurance claims. Data from medical records assist healthcare facilities in evaluating the types of services they should offer and project future patient volume and treatment needs.

Educational Requirements

Vary from on-the-job training to a four-year bachelor's degree.

Other Options Related To Medical Records

Health Information Administrator — four-year bachelor's degree or post-graduate certificate

Medical Records Technicians — two-year associate's degree

Medical Records Clerk, Coder, and Medical Transcriptionist — high school diploma plus brief technical training

“Being a male nurse in a profession dominated by women has been very rewarding, and at times I almost feel like I am a pioneer exploring new territory. Because the field of nursing is so broad, there are many avenues of career fields from which one can choose.”

—David Blackmon, RN, BSN
Fairfield Memorial Hospital

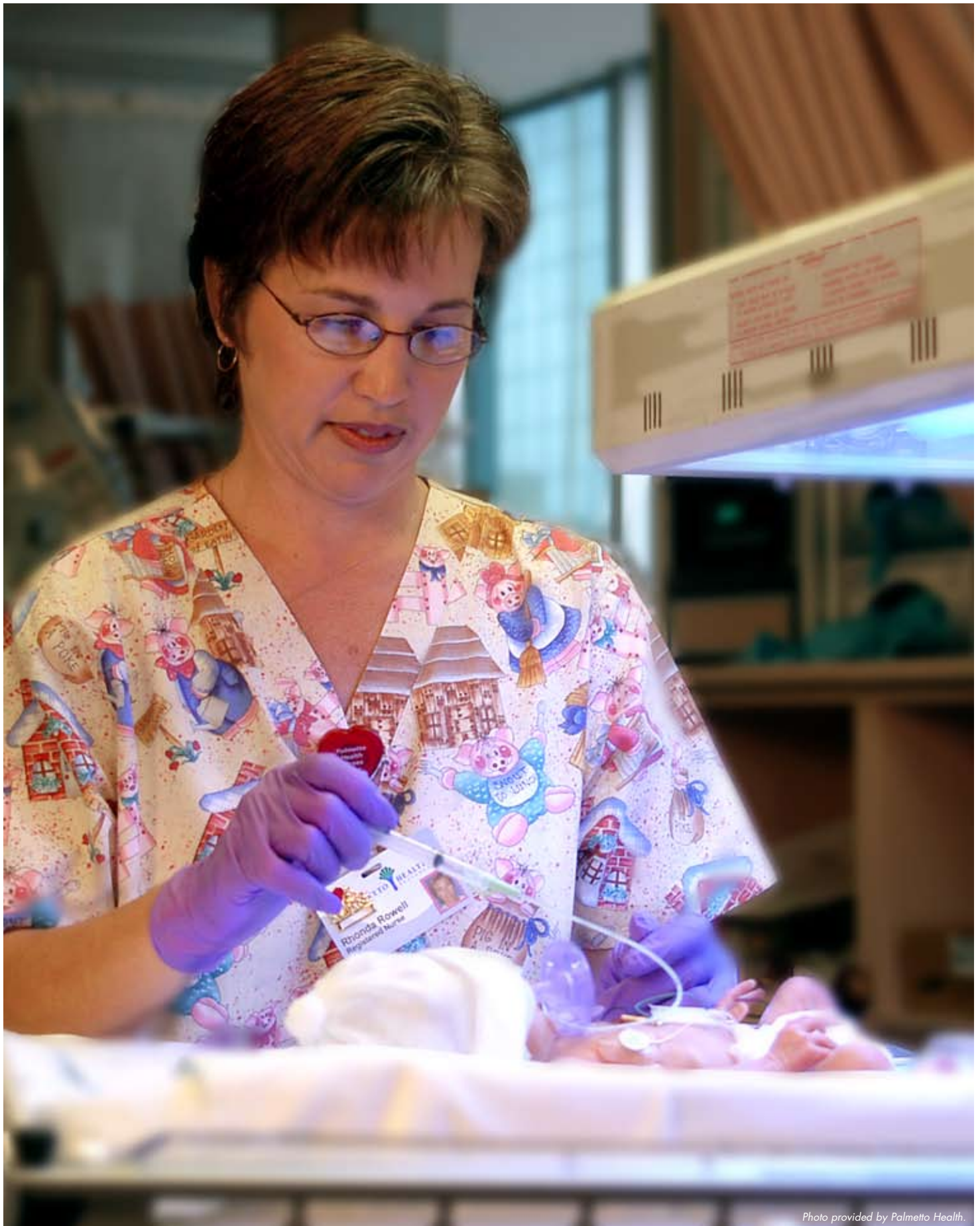


Photo provided by Palmetto Health.

SUPPORT SERVICES

Careers in the support services major provide a therapeutic environment for the delivery of healthcare. Support services offers a full range of career opportunities from entry-level to management, including technical and professional careers.

Sample Occupations

Biomedical/Clinical Engineer
Central Services Technician
Dietary Technician
Environmental Services Technician
Hospital Maintenance Engineer
Materials Management Technician

Credentials

Support services careers have workers at varying levels of education. Some may require an associate or bachelor of science degree. Most offer extensive on-the-job training. There is opportunity to gain job-related experience to advance in a support services career.

Employment Outlook

Job growth is projected for careers in this major as the healthcare industry expands. The demand for entry-level workers, qualified managers and supervisors will provide numerous job opportunities.

Dietary Technicians

Dietary technicians perform the initial patient screen that determines the nutritional status of patients. They are specialists in food service management whose work can include menu planning, procurement of food and supplies, and employee supervision. The demand is growing rapidly as hospitals, long-term care and assisted living facilities and schools seek qualified, caring dietary technicians. A dietary technician typically works as a member of the food service or healthcare team under the supervision of a registered dietitian.

Educational Requirements

Two-year associate's degree

Solid Core

Careers in healthcare require a solid academic foundation. Below are the core courses you will need in order to succeed.

Science: Biology, chemistry and the other sciences underlie the day-to-day delivery of quality healthcare.

Math: Healthcare careers require a solid foundation in math. In critical procedures such as surgery, numbers can make the difference between life and death.

English: Healthcare delivery is a team effort. Communications mastery is necessary to coordinate the effort and make it work.

Social Studies/History: In order to understand healthcare, you must understand social studies and history.

Foreign Language: Advances in medical science occur worldwide and are reported in all languages. The best healers cross language barriers with ease.

Critical Needs Areas in the Midlands of South Carolina

Home Health Worker
Medical Lab Technology
Medical Social Worker
Nursing
Occupational Therapy
Pharmacy
Physical Therapy
Radiology
Respiratory Therapy
Surgical Technology

As reported by Fairfield Memorial Hospital, Lexington Medical Center, Palmetto Health and Sisters of Charity Providence Hospitals.



Photo provided by Fairfield Memorial Hospital.

BIOTECHNOLOGY RESEARCH AND DEVELOPMENT

Careers in the biotechnology research and development major involve bioscience research and development as it applies to human health. These scientists study diseases to discover new treatments or invent medical devices used to directly assist patients or to improve the accuracy of diagnostic tests.

Sample Occupations

Bioinformatics Specialist

Biostatistician

Microbiologist

Molecular Biologist

Pharmacist

Research Assistant

Biotechnology Laboratory Technician — certificate program

Credentials

Most entry-level careers in biotechnology research and development require a master's degree. Few certifications or licensures are required for these careers.

Employment Outlook

Based on advancements in biotechnology, the need for skilled professionals in this major will grow rapidly. Most career opportunities in this major are available in universities, research institutions, government agencies, specialty laboratory facilities and major health organizations.

Pharmacy

Pharmacists are experts on medicines and their use in diagnosing, curing, treating, preventing or easing the symptoms of disease and health problems. As a resource of information for doctors, nurses and patients about medications and their use, pharmacists must remain aware of the latest developments in drug therapy. It is vital that pharmacists understand the chemical make-up of medications available.

Pharmacists work in a variety of clinical settings, where they prepare and dispense prescribed medications, including injections and intravenous solutions. They advise the medical staff on the proper selection and use of the medicine and the effects they might have on the patient. Pharmacists evaluate the quality of drugs and ensure that overdoses have not been prescribed or that toxic effects will not result from combining ingredients.

Educational Requirements

Six-year pharmacy degree. Pharmacists must also pass a state licensure examination.

Careers Related To Pharmacy

Pharmacy Technician — one-year certificate program.

Pharmacy Aide/Clerk — high school diploma plus two–three months on-the-job training or completion of a pharmacy technician program.

Pharmacy technicians, aides, and clerks work under the supervision of the pharmacist.

BY THE NUMBERS

The Healthcare Industry

Healthcare Careers Average Salaries in South Carolina

Occupation	Average Salary
Athletic Trainer	\$43,790
Audiologist	\$64,910
Chiropractor	\$69,790
Dental Assistant	\$31,410
Dental Hygienist	\$51,360
Dentist	\$138,290
Emergency Medical Technician	\$29,980
Home Health Aide	\$18,580
Licensed Practical Nurse	\$35,860
Medical Assistant	\$26,740
Medical Records Technician	\$27,350
Medical Technologist	\$35,460
Nuclear Medical Technologist	\$61,810
Occupational Therapist	\$59,760
Optician	\$30,230
Pharmacist	\$98,540
Physical Therapist	\$70,810
Physical Therapist Assistant	\$46,170
Physician	\$155,330
Physician Assistant	\$73,450
Radiation Therapist	\$63,060
Radiologic Technologist	\$48,010
Registered Nurse	\$55,820
Respiratory Therapist	\$45,460
Veterinarian	\$75,060

Salary figures do not include overtime or benefits packages.
Source: U.S. Dept. of Labor, South Carolina Wage Estimates, www.bls.gov.
For the most up-to-date salary information, visit www.bls.gov.



RESOURCES



American Careers: www.carcom.com

American Dental Association: www.ada.org

American Medical Association: www.ama-assn.org

American Nurses Credentialing Center: www.nursecredentialing.org

Association of American Medical Colleges: www.aamc.org

Edheads: www.edheads.org

Health Occupations Students of America: www.hosa.org

Keirsey Temperament Sorter: www.keirsey.com

Kuder Career Planning Systems: www.sc.kuder.com

Midlands Education & Business Alliance: www.mebasc.com

Midlands Technical College: www.midlandstech.edu

National Consortium for Health Science Education: www.healthscienceconsortium.org

South Carolina Department of Education, Health Science Technology Education:
www.ed.sc.gov/agency/offices/cate/health_sciences

South Carolina HOSA: www.schosa.org

South Carolina Hospital Association: www.scha.org : www.besomethingamazing.com

SCHA Be Something Amazing: www.besomethingamazing.com

South Carolina Occupational Information System: www.scois.net

South Carolina Personal Pathways: www.scpathways.org

South Carolina Technical College System: www.sctechsystem.com

States' Career Clusters: www.careerclusters.org

U.S. Bureau of Health Professions: www.bhpr.hrsa.gov

U.S. Bureau of Labor Statistics: www.bls.gov

USC College of Nursing: www.sc.edu/nursing

USC School of Medicine: www.med.sc.edu

HEALTHCARE RELATED RESOURCES IN THE MIDLANDS

Ms. Nancy Allen

SC Department of Education
1429 Senate Street, Suite 918A
Columbia, SC 29201
803-734-0372
nallen@ed.sc.gov

Ms. Janet Ancone

Midlands Technical College
Post Office Box 2408
Columbia, SC 29202
803-822-3402
anconej@midlandstech.edu

Ms. Theresa Baker

Midlands Technical College
Post Office Box 2408
Columbia, SC 29202
803-738-7835
bakert@midlandstech.edu

Ms. Kelli Bennett

Lexington Medical Center
2720 Sunset Boulevard
West Columbia, SC 29169
803-936-4104
kjbenett@lexhealth.org

Ms. Dianne Boufawaz

Midlands Technical College
Post Office Box 2408
Columbia, SC 29202
803-822-3463
boufawazd@midlandstech.edu

Ms. Heather Bowers

Recruiting Solutions
1441 Main Street Suite 890
Columbia, SC 29201
803-806-8125
hbowers@recruitingsolutions
online.com

Ms. Tonya Chambers

SC Dept of Health
and Human Services
1801 Main Street
Columbia, SC 29201
803-898-2670
chambert@scdhhs.gov

Ms. Angelica Christie

Health Careers Program
SC AHEC
19 Hagood Avenue, #802 MSC
814 Charleston, SC 29425
843-532-0306
christae@musc.edu

Ms. Angel Clark

Mid-Carolina AHEC
22 Sasanqua Circle
Columbia, SC 29209
angelclark@comporium.net

Ms. Theresa Counts Davis

Richland, School District Two
6831 Brookfield Road
Columbia, SC 29206
803-738-3273
tcounts@richland2.org

Mr. Matt Daugherty

SC Vocational Rehabilitation
Department
1410-A Boston Avenue
West Columbia, SC 29170
803-896-6052
mdaugherty@scvrd.state.sc.us

Ms. Becky Garnett

Midlands Technical College
Post Office Box 2408
Columbia, SC 29202
803-691-3881
garnettb@midlandstech.edu

Ms. Holly Gillespie

Nelson Mullins Riley &
Scarborough LLP
1320 Main Street
Columbia, SC 29201
803-255-9399
holly.gillespie@nelsonmullins.com

Ms. Eleanor Glover

SC Department of Education
924 Rutledge Building
Columbia, SC 29201
803-734-3826
eglover@ed.sc.gov

Ms. Doretha Glymph

Midlands Technical College
Post Office Box 2408
Columbia, SC 29202
803-738-7771
glymphd@midlandstech.edu

Ms. Stacey Gray-Feaster

Fairfield Central High School
836 US Highway 321 ByPass South
Winnsboro, SC 29180
803-635-1441
sgfeaster@fairfield.k12.sc.us

Mr. Rick Grooms

Providence Hospitals
2753 Laurel Street
Columbia, SC 29204
803-256-5406
richard.grooms@
providencehospitals.com

Dr. Martha Hanks

Midlands Technical College
Post Office Box 2408
Columbia, SC 29202
803-822-3434
hanksm@midlandstech.edu

Ms. Cathy Hagen

Midlands Technical College
Post Office Box 2408
Columbia, SC 29202
803-822-3509
hagenc@midlandstech.edu

Mr. Alphonso Hanna

Eau Claire Cooperative
Health Centers
1228 Harden Street
Columbia, SC 29204
803-733-5969 x 4161
ahanna@ecchc.org

Ms. Tiffany Harrison

Fairfield County Economic
Development
Post Office Box 60
Winnsboro, SC 29180
803-712-1923
tharrison@fairfieldsc.com

Ms. Mary Lynn Kinley

Fairfield Memorial Hospital
Post Office Box 620
Winnsboro, SC 29180
803-635-0274
MaryLynn.Kinley@Fairfield
Memorial.com

Ms. Vickey McNeil

New Life Support Services
126 Durham Creek Court
Columbia, SC 29229
803-404-9538
vickeymcneil@yahoo.com

Ms. Fern McWhorter

Agape Senior
1053 Center Street
West Columbia, SC 29169
803-454-0365 x 5825
fmcwhorter@agapesenior.com

Ms. Keisha Moore

ECPI College of Technology
250 Berry Hill Road
Columbia, SC 29210
803-772-3333
kemoore@ecpi.edu

Mr. Charles Noble

Eau Claire Cooperative
Health Centers
1228 Harden Street
Columbia, SC 29204
803-733-5969
cnoble@ecchc.org

Ms. Lindsay Ott

Southeastern Institute
1420 Colonial Life Boulevard West
Suite 80
Columbia, SC 29210
803-798-8800
lott@southeastern
messageschools.com
www.southeasterninstitute.com

Ms. Sue Perry

SC Department of Mental Health
2414 Bull Street
PO Box 485
Columbia, SC 29202
803-898-8582
sup52@scdmh.org

Ms. Rebecca Pinkney-Thomas

Richland School District One
Office of Career and
Technology Education
3560 Lynhaven Drive
Columbia, SC 29204
803-735-3338
rthomas@richlandone.org

Ms. Asa Pressley

Select Health of SC Inc.
PO Box 172
Trenton, SC 29847
803-269-9015
apress2@selecthealthofsc.com

Ms. Melissa Price

Midlands Technical College
Post Office Box 2408
Columbia, SC 29202
803-822-7080
pricem@midlandstech.edu

Ms. Mary Rawls

Midlands Technical College
Post Office Box 2408
Columbia, SC 29202
803-822-3353
rawlsm@midlandstech.edu

Ms. Tomi Richards

Midlands Technical College
Post Office Box 2408
Columbia, SC 29202
803-732-5231
richardst@midlandstech.edu

Ms. Val Richardson

Palmetto Health
293 Greystone Boulevard
Columbia, SC 29210
803-296-5306
valerie.richardson@palmettohealth.org

Ms. Patricia Shahbahrani

Midlands Technical College
Post Office Box 2408
Columbia, SC 29202
803-822-7049
shahbahrani@midlandstech.edu

Ms. Cammie Steele

College of Arts and Sciences
University of South Carolina
Columbia, SC 29208
803-777-2505
cammie@sc.edu

Ms. Sylvia Taylor

Reliant Hospice
200 Center Point Circle Ste 170
Columbia, SC 29210
803-260-5718
staylor@relianthospice.com

**Sisters of Charity
Providence Hospitals**

Human Resources Office
2753 Laurel Street
Columbia, SC 29204
803-256-5410
www.provhosp.com



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