



Office of Human Resources  
Nuclear Medicine Technologist - CO2684  
THIS IS A PUBLIC DOCUMENT

### General Statement of Duties

Prepares and assists in administering radiopharmaceuticals, and scans patients using specialized nuclear medicine/radiological equipment to provide diagnostic information for physicians.

### Distinguishing Characteristics

The Nuclear Medicine Technologist class prepares and administers radioactive isotopes utilizing a variety of radioisotope equipment, under direction of a physician. Incumbents calculate, measure and record radiation dosage or radiopharmaceuticals received, used and disposed following a physician's prescription.

### Level of Supervision Exercised

None

### Essential Duties

Prepares radiopharmaceuticals for administration by injection, ingestion, and inhalation methods.

Administers and records isotope dosage accurately following established departmental procedures. Observes patient during procedure and reports any unusual occurrences to appropriate personnel.

Develops exposed film to produce scintillation scans using automatic equipment.

Positions patients and operates equipment to produce the most reliable and informational data; provides for proper radiation safety for patients

Assists in inventory control and ordering supplies.

Assists in training of Nuclear Medicine students.

Assists in the maintenance of established departmental policies and procedures, objectives, quality improvement, safety, environmental and infection control standards.

Performs other related duties as assigned or requested.

Any one position may not include all of the duties listed. However, the allocation of positions will be determined by the amount of time spent in performing the essential duties listed above.

### Competencies

Customer Service – Interacts with customers in a friendly and professional manner, works to resolve issues quickly and effectively, and is knowledgeable about products and services.

Oral Communication – Expresses information to individuals or groups effectively; taking into account the audience and nature of the information; makes clear and convincing oral presentations; listens to others, attends to nonverbal cues and responds appropriately.

Technical Competence – Uses knowledge that is acquired through formal training or extensive on-the-job experience to perform one's job; works with, understands, and evaluates technical information related to the job; advises others on technical issues.

Technology Application – Uses machines, tools, instruments, or equipment effectively; uses computers and computer applications to analyze and communicate information in the appropriate format.

### **Knowledge & Skills**

Knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and sub-atomic structures and processes.

Knowledge of plant and animal organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment.

Knowledge of the concepts, principles, theories of the composition, structure, and properties of substances, and of the chemical processes and transformations, including uses of chemicals and their interactions, danger signs, production techniques, and disposal methods.

Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

Knowledge of the information and techniques needed to diagnose and treat human injuries, diseases, and deformities. This includes symptom, treatment alternatives, drug properties and interactions, and preventive health-care measures.

Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.

Knowledge of intelligence operations; public safety and security operations; occupational health and safety; investigation and inspection techniques; or rules, regulations, precautions, and prevention techniques for the protection of people, data, and property.

Knowledge of administrative and clerical procedures and systems such as word processing, managing files and records, stenography and transcription, designing forms, and other office procedures and terminology.

Knowledge of the various ways in which radiopharmaceuticals may be dispensed to the patient sufficient to be able to prepare them.

Knowledge of departmental procedures sufficient to be able to administer established dosage

Knowledge of anatomy sufficient to be able to position patients and locate anatomical area to be imaged.

Knowledge of safety hazards and necessary safety precautions sufficient to be able to establish a safe work environment.

Skill in the use of automatic developing equipment used for developing nuclear medicine film.

### **Education Requirement**

Completion of a two year hospital or college Nuclear Medicine program approved by the American Medical Association.

### **Experience Requirement**

None

**Education & Experience Equivalency**

No substitution of experience for education is permitted.

**Licensure & Certification**

Nuclear Medicine Technologist Certification through the American Registry of Registered Technologists (ARRT) or the Nuclear Medicine Technologists Certification Board (NMTCB) is required by completion of the probationary period.

Licenses and certifications must be kept current as a condition of employment.

**Working Environment**

Wet: frequent contact with water or other liquid  
Hazards: conditions where there is danger to life, body, and/or health  
Potential exposure to hazardous chemicals  
Contact with patients under wide variety of circumstances  
Potential exposure to a variety of electro-mechanical hazards  
Potential exposure to explosive chemicals, gases and low level radiation  
Potential exposure to hazards from electrical/mechanical/power equipment  
Potential exposure to infections and contagious disease  
Potential exposure to patient elements  
Potential exposure to risk of blood borne diseases  
Potential exposure to radioactive substances.

**Level of Physical Demand**

3-Medium (20-50 lbs.)

**Physical Demands**

(Physical Demands are a general guide and specific positions will vary based on working conditions, locations, and agency/department needs.):

Balancing: maintaining body equilibrium to prevent falling over  
Eye/hand/foot coordination: performing work through using two or more  
Feeling: perceiving attributes of objects by means of skin receptors.  
Fingering: picking, pinching or otherwise working with the fingers  
Handling: seizing, holding, grasping or otherwise working with hands  
Hearing: perceiving the nature of sounds by the ear.  
Pulling: exerting force on an object so that it is moving to the person  
Pushing: exerting force upon an object so that the object is away  
Reaching: extending the hand(s) and arm(s) in any direction  
Repetitive motions: making frequent movements with a part of the body.  
Stooping: bending the body by bending the spine at the waist  
Lifting: raising or lowering objects weighing no more than 50 pounds, from one level to another.  
Talking: expressing or exchanging ideas by means of spoken words.  
Near vision: ability to see details at close range (within a few feet of the observer).  
Accommodation: ability to adjust vision to bring objects into focus  
Color vision: ability to distinguish and identify different colors  
Depth perception: ability to judge distance and space relationships  
Field of vision: ability to see peripherally.

**Background Check Requirement**

Criminal Check  
Education Check

**Assessment Requirement**

None

**Probation Period**

Six (6) months.

**Class Detail**

**Pay Grade: O-622**  
**FLSA Code: N**  
**Established Date: 9/21/2018**  
**Established By: LS**  
**Revised Date:**  
**Revised By:**  
**Class History:**