

**BROWARD COMMUNITY COLLEGE
NUCLEAR MEDICINE TECHNOLOGY PROGRAM
TECHNICAL STANDARDS**

JOB DESCRIPTION

Nuclear Medicine Technologists prepare and administer radiopharmaceuticals to patients and perform diagnostic procedures on virtually every organ system in the human body using highly sophisticated computerized detection systems to produce images(scans).

1. POSITION REQUIREMENTS

A. Education

1. Graduate of an accredited program in Nuclear Medicine Technology.
2. Credentialed by the American Registry of Radiologic Technologists and/or the Nuclear Medicine Technology Certification Board.
3. Certified by and hold current Florida license as a nuclear medicine technologist.

B. Job Requirements

1. This position requires the ability to work with patients of all ages, race, creeds, and physical conditions. The ability to work with newborns, children, adolescents, adults, and geriatrics in a safe and productive manner is essential.
2. Ability to perform routine nuclear medicine procedures with radiation detection equipment.

C. Other Qualifications

1. Maintain and respect patient confidentiality.
2. Must have good communication skills and the ability to use proper channels of communication.

2. CAREER PATH

Employment opportunities include staff technologist, supervising technologist, administrative technologist, clinical research, education, technical applications, and sales (equipment, radiopharmaceuticals and accessories).

3. ESSENTIAL DUTIES

This position requires:

- a) The ability to use imaging and radiation detection equipment to perform diagnostic procedures with radioactive pharmaceuticals in a safe manner consistent with minimal radiation exposure and maximum image quality.

- b) The ability to evaluate and interpret requests for nuclear medicine procedures and follow established protocols to produce the optimal scans.
- c) The ability to communicate and receive written and verbal instructions and carry them out.

4. PHYSICAL DUTIES

The nuclear medicine technologist is required to assist in moving patients from stretchers, wheelchairs, or beds to imaging tables; also may be required to push or pull heavy objects. In the absence of additional personnel to assist in moving patients over 50 lbs. there are devices available, designed to assist in patient transfers and lifting. Visual acuity for patient and machine manipulation and safety is necessary.

5. WORKING CONDITIONS

A nuclear medicine technologist spends 100 percent of their time in an air-conditioned environment with minimal exposure to noise and humidity. The technologist is constantly bending, pushing, lifting, walking, talking on the phone, talking to physicians and moving heavy objects. There is frequent exposure to blood and body fluids from patients but minimal exposure to processing chemicals from developing equipment. There is moderate exposure to radiation which is monitored by a film badge provided by the nuclear medicine department and reviewed monthly by the Radiation Safety Officer. The technologists exposure to radiation must not exceed the radiation limits as stated by the Florida HRS regulations and ALARA.

6. GENERAL EDUCATION DEVELOPMENT

This position requires reasoning, mathematical, and language skills at the high school level plus two years of college or technical school.

7. PERSONAL PROTECTION EQUIPMENT

Some hospitals require the use of back support belts for lifting and moving moderate weights. Heavy radiation protection equipment in the form of lead aprons, lead bricks, lead shields, lead gloves, lead goggles and thyroid shields must be worn during some nuclear medicine procedures. Radiation monitoring devices such as whole body film badge and TLC monitors are required and supplied by the facility. The use of rubber gloves, gowns, goggles, and masks are required for instances of exposure to blood, body fluids, and infectious processes are supplied by the hospital.

8. STANDARD VOCATIONAL PREPARATION

This is a skilled position requiring a minimum of 10-24 months of education beyond the post-secondary high school education. This education can be obtained through a college-based Nuclear Medicine Technology Program or a hospital-based Nuclear Medicine Technology Program.

9. APTITUDES

On a scale of 1 to 5 with 1 being the highest the following aptitudes should be evident in Nuclear Medicine Technologists.

- a. **Intelligence:** General learning ability. Level 2
- b. **Verbal:** Able to receive and present information or ideas clearly. Level 1
- c. **Numerical:** Able to perform mathematical problems quickly/accurately. Level 1
- d. **Spatial:** Understands the relationship of forms in space. Level 1
- e. **Form Perception:** Ability to make visual comparisons. Level 2
- f. **Clerical Perception:** Able to perceive details graphically. Level 2
- g. **Motor Coordination:** Quick, accurate movement response. Level 2
- h. **Finger Dexterity:** Ability to work with fingers. Level 2
- i. **Manual Dexterity:** Ability to work with hands. Level 2
- j. **Eye-Hand-Foot Coordination:** Appropriate movement responses. Level 2
- k. **Color Discrimination:** Ability to detect color variations. Level 2