



1002 E. Newport Center Drive, Suite 200, Deerfield Beach, Florida 33442

### Nuclear Medicine Tech Job Description

Add radioactive substances to biological specimens, such as blood, urine and feces, to determine therapeutic drug or hormone levels.

Calculate, measure and record radiation dosage or radiopharmaceuticals received, used and disposed, using computer and following physician's prescription.

Detect and map radiopharmaceuticals in patients' bodies, using a camera to produce photographic or computer images.

Dispose of radioactive materials and store radiopharmaceuticals, following radiation safety procedures.

Explain test procedures and safety precautions to patients and provide them with assistance during test procedures.

Measure glandular activity, blood volume, red cell survival, and radioactivity of patient, using scanners, Geiger counters, scintillometers, and other laboratory equipment.

Position radiation fields, radiation beams, and patient to allow for most effective treatment of patient's disease, using computer.

Administer radiopharmaceuticals or radiation to patients to detect or treat diseases, using radioisotope equipment, under direction of physician.

Prepare stock radiopharmaceuticals, adhering to safety standards that minimize radiation exposure to workers and patients.

Process cardiac function studies, using computer.

Produce a computer-generated or film image for interpretation by a physician.

Record and process results of procedures.

Develop treatment procedures for nuclear medicine treatment programs.

Gather information on patients' illnesses and medical history to guide the choice of diagnostic procedures for therapy.

Maintain and calibrate radioisotope and laboratory equipment.

Train and supervise student or subordinate nuclear medicine technologists.

#### **Required Knowledge:**

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

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

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

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

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**Chemistry** -- Knowledge of the chemical composition, structure, and properties of substances and of the chemical processes and transformations that they undergo. This includes uses of chemicals and their interactions, danger signs, production techniques, and disposal methods.

**Skills Required:**

**Mathematics** -- Using mathematics to solve problems.

**Operation and Control** -- Controlling operations of equipment or systems.

**Operation Monitoring** -- Watching gauges, dials, or other indicators to make sure a machine is working properly.

**Reading Comprehension** -- Understanding written sentences and paragraphs in work related documents.

**Science** -- Using scientific rules and methods to solve problems.

**Equipment Selection** -- Determining the kind of tools and equipment needed to do a job.

**Instructing** -- Teaching others how to do something.

**Monitoring** -- Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.

**Writing** -- Communicating effectively in writing as appropriate for the needs of the audience.

**Active Listening** -- Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

**Abilities Required:**

**Oral Comprehension** -- The ability to listen to and understand information and ideas presented through spoken words and sentences.

**Written Comprehension** -- The ability to read and understand information and ideas presented in writing.

**Problem Sensitivity** -- The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.

**Written Expression** -- The ability to communicate information and ideas in writing so others will understand.

**Oral Expression** -- The ability to communicate information and ideas in speaking so others will understand.

**Deductive Reasoning** -- The ability to apply general rules to specific problems to produce answers that make sense.

**Information Ordering** -- The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).

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**Job Activities:**

**Monitor Processes, Materials, or Surroundings** -- Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.

**Getting Information** -- Observing, receiving, and otherwise obtaining information from all relevant sources.

**Analyzing Data or Information** -- Identifying the underlying principles, reasons, or facts of information by breaking down information or data into separate parts.

**Processing Information** -- Compiling, coding, categorizing, calculating, tabulating, auditing, or verifying information or data.

**Identifying Objects, Actions, and Events** -- Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.

**Communicating with Supervisors, Peers, or Subordinates** -- Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.

**Updating and Using Relevant Knowledge** -- Keeping up-to-date technically and applying new knowledge to your job.

**Making Decisions and Solving Problems** -- Analyzing information and evaluating results to choose the best solution and solve problems.

**Interpreting the Meaning of Information for Others** -- Translating or explaining what information means and how it can be used.

**Documenting/Recording Information** -- Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.

Applicant Signature \_\_\_\_\_ Date \_\_\_\_\_

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