



DIVISION SCOPE OF SERVICE

Division: TRISTAR

Classification: RADIATION HEALTH PHYSICIST CONSULTANT

Applicant Name:

Radiation Health Physicist Consultant

The Radiation Health Physicist Consultant must have equivalent qualifications, competence and function in the same role as employed individuals performing the same or similar services at the facility, as defined by facility job description.

Definition of Care or Service:

The Radiation Health Physicist Consultant assists the facility in review of image quality and radiation exposure levels, the development of systems and policies, the review of consistency between plans and their execution, and problem solving. Scope of Service may include:

- Provides active support in Radiation Protection programs and support to the RSO
- Surveys, inspects, and calibrates all diagnostic, fluoroscopic, and Nuclear Imaging detecting equipment to ensure proper functioning
- Performs Radiation Shielding Scatter surveys at the completion of construction to verify compliance with state and JC regulations.
- Performs radioactive material absorption calculations for the Nuclear Medicine department
- Develops educational programs for patients, employees, residents, and other customers as necessary
- Maintains monitoring and documentation of staff radiation exposure
- Inspects all areas where radioactive materials are stored, used, or disposed
- Supervises sealed and unsealed radioisotope preparation, handling, and inventory
- Performs leak tests for all Radioactive Sources as needed.
- Participates in the improvement of operational functions of the department including protocol optimization
- Monitors and evaluates the quality and appropriateness of care and practices identifying opportunities for improvement through collaboration
- Demonstrates Clinical and Service excellence behaviors to include code of HCA Healthcare conduct core fundamentals in daily interactions with patients, families, co-workers and physicians.

Setting(s):

- Healthcare facilities including but not limited to hospitals, outpatient treatment facilities, imaging centers, and physician practices
- Imaging, Cardiac Cath Lab, Surgery, Nuclear Medicine

Supervision:

- Supervision by Radiation Safety Officer, Radiation Safety Committee, and/or Imaging Director

Evaluator:

- Imaging department director or designee

Tier Level: 2

eSAF Access Required: YES

Qualifications:

- High School Degree or Higher

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- Proof of **one** of the below:
 - Bachelor's degree in physics, radiological sciences, or physical sciences
 - Both items below can be found on skills checklist:
 - Listed as an Authorized User on an approved Radioactive Active Materials License to perform such services.
- AND**
- Approved by the state's Department of Radiation Health or Radiation Health Branch as a qualified inspector in that particular state to perform such tests and consultation.

NOTE: Where education may not be defined in qualifications area of the Scope, HCA Healthcare requires the highest level of education completed (not training or courses) confirmed on your background check.

State Requirements:

- Active approval and in good standing as a qualified individual to perform such services (found on skills checklist)

Experience:

- A minimum of two years' clinical experience as a radiation health physics consultant required.

Competencies:

Radiation Health Physics Consultant will demonstrate:

- Develop specifications for imaging equipment and diagnostic radiation detectors
- Develop procedures for the initial and continuing evaluation of imaging equipment and diagnostic radiation detectors
- Provide evidence of compliance of imaging equipment with regulatory and accreditation agency rules and recommendations
- Measure radiation from imaging equipment prior to clinical utilization
- Perform acceptance testing, evaluation and commissioning of imaging equipment and/or their associated computer systems, algorithms, data, and output
- Develop and/or evaluate of policies and procedures related to the appropriate clinical use of radiation for imaging purposes
- Review diagnostic imaging dosimetry information noted in patient records
- Develop and manage of a comprehensive Quality Management Program that monitors, evaluates, and optimizes imaging processes
- Consult in the development and/or evaluation of a comprehensive clinical radiation safety program in diagnostic imaging
- Consult on patient or personnel radiation dose and associated risks
- Provide diagnostic imaging physics training for medical practitioners and other health-care providers
- Provide consultation to assure an optimized balance between image quality and patient dose
- Provide institutional consultation on program development in diagnostic imaging
- Evaluation of installed shielding designed to protect patients, workers, the general public and the environment from radiation produced incident to diagnosis or treatment of humans
- Apply other medical applications of physics as appropriate to safely carry out diagnostic radiologic procedures
- Review Medical Health Physics procedures associated with the practice of Diagnostic Radiology
- Infection Prevention
 - Practices consistent hand hygiene
 - Uses personal protective equipment (PPE) when required



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- Required immunizations per Division requirements
- Complies with Isolation precautions
- Maintains sterile field

References:

Rules of Tennessee Department of Environment and Conservation Division of Radiological Health:

<http://publications.tnsosfiles.com/rules/0400/0400-20/0400-20-10.20170912.pdf>

Document Control:

- Created 2/20/2018
- Cosmetic updates 5/11/2020
- Content update 5/13/2021

Your signature confirms you will be able to comply with the Qualifications and Competencies listed within this Scope of Service and that you will confirm education via your background check.

Applicant Printed Name: _____

Signature: _____

Date: _____