

DIVISION SCOPE OF SERVICE

Division: ALL HCA DIVISIONS-NOT INCLUDING SAN ANTONIO

Classification: QUALIFIED MEDICAL PHYSICIST-DIAGNOSTIC

Applicant Name:

Qualified Medical Physicist - Diagnostic

The Qualified Medical Physicist - Diagnostic must have equivalent qualifications, competence and function in the same role as employed individuals performing the same or similar services at the facility.

Definition of Care or Service:

The Qualified Medical Physicist - Diagnostic plays a principal role in the 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. This branch of medical physics that deals with the diagnostic application of roentgen rays, gamma rays from sealed sources, ultrasonic radiation, or radiofrequency radiation and the use of equipment associated with the production and use of that radiation. 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--producing equipment to ensure proper functioning
- Serves as a member of the institution's Radiation Safety Committee
- Provide evidence of compliance of imaging equipment with regulatory and accreditation agency rules and recommendations
- Measure and characterize of medical 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
- Evaluation of policies and procedures related to the appropriate clinical use of radiation for imaging purposes
- Review diagnostic imaging dosimetry information noted in patient records
- 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
- Plan and specify of thickness, material, and placement of shielding needed to protect patients, workers, the general public and the environment from radiation produced incident to diagnosis or treatment of humans
- Assess and evaluate of installed shielding designed to protect patients, workers, the general public and the environment from radiation produced incident to diagnosis or treatment of humans
- Participate in informatics development and direction

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- Apply other medical applications of physics as appropriate to safely carry out diagnostic radiologic procedures
- 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, Endoscopy, Pain Management

Supervision:

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

Evaluator:

- Imaging department director or designee

Tier Level: 3

eSAF Access Required: YES

Qualifications:

- Bachelor’s degree or higher in medical physics or the physical sciences
- **One** of the below required:
 - Licensed or Registered as a Licensed Medical Health Physicist
 - Certified in Medical Physics through **one** of the below:
 - American Board of Radiology (ABR)
 - The American Board of Medical Physics (ABMP)
 - American Board of Health Physics (ABHP)
 - American Board of Science in Nuclear Medicine (ABSNM)
 - The Canadian College of Physicists in Medicine (CCPM)

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:

<u>States that require Licensure</u>	<u>States that require Registration</u>
CAP: N/A	CAP: KY; IN; VA
CON: N/A	CON: KS; CO
CWTX: TX	CWTX: N/A
EFL: FL	EFL: N/A
FAR: N/A	FAR: CA; NV
GULF: TX	GULF: N/A
MID: N/A	MID: KS; MS
MNTN: N/A	MNTN: AK; UT
NCAR: N/A	NCAR: NC
NFL: FL	NFL: N/A
NTX: TX	NTX: N/A
SAN: TX	SAN: N/A

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SATL: FL	SATL: SC; GA
TRI: N/A	TRI: KY; TN; GA
WFL: FL	WFL: N/A

****Idaho does not require a License, Registration or Certification****

****Georgia does not require a License, Registration or Certification****

****Louisiana does not require a License, Registration or Certification****

Experience:

- A minimum of two years' prior clinical experience as a hospital medical physicist or radiation physicist required

Competencies:

The Qualified Medical Physicist - Diagnostic 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
- Providing evidence that imaging equipment continues to meet applicable rules and regulations of radiation safety and performance standards required by accrediting and regulatory agencies;
- Measure and characterize of medical 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
- Plan and specify of thickness, material, and placement of shielding needed to protect patients, workers, the general public and the environment from radiation produced incident to diagnosis or treatment of humans
- Assess and evaluate of installed shielding designed to protect patients, workers, the general public and the environment from radiation produced incident to diagnosis or treatment of humans
- Participate in informatics development and direction
- Apply other medical applications of physics as appropriate to safely carry out diagnostic radiologic procedures
- Develop and apply Medical Health Physics procedures associated with the practice of Diagnostic Radiology
- Ability to evaluate and show evidence of inspection program to validate proper functioning of imaging equipment
- Ability to accurately assess the proper functioning of imaging equipment
- Radiation safety rules and regulations set forth by TJC, TDSHS, FDA, ACR, and other governing bodies

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- Ability to formulate policy and procedures relating to proper functioning of imaging equipment
- Ability to communicate scientific information clearly, logically, and accurately
- Responsibility for work assigned
- Infection Prevention
 - Practices consistent hand hygiene
 - Uses personal protective equipment (PPE)
 - Required immunizations per Division requirements
 - Complies with Isolation precautions

References:

AAPM Professional/Education/Science Policies

<http://www.aapm.org/org/policies/details.asp?id=317&type=PP¤t=true>

The Role Of The Clinical Medical Physicist In Diagnostic Radiology

https://www.aapm.org/pubs/reports/RPT_42.pdf

The American Board of Radiology <https://www.theabr.org/myabr/find-a-radiologist>

The American Board of Medical Physics <https://abmpexam.com/>

American Board of Health Physics <http://qmp.crcpd.org/>

American Board of Science in Nuclear Medicine <http://qmp.crcpd.org/>

The Canadian College of Physicists in Medicine in Diagnostic Radiological Physics

<http://www.ccpm.ca/ccpm-english/main/about-ccpm/about-certification.html>

Conference of Radiation Control Program Directors <https://www.crcpd.org/page/aboutQMP>

Virginia Department of Health Office of Radiological Health verification through email request:

kim.knight@vdh.virginia.gov

Florida Department of Health verification:

<https://apps.mqa.doh.state.fl.us/MQASearchServices/HealthCareProviders>

Texas Medical Board: <http://www.tmb.state.tx.us/page/look-up-a-license>

Document Control:

- Previously named Radiation Physicist-Diagnostic
- Made Global 7/10/2019
- Content updates 7/10/2019

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: _____