***This old UMB job description was created between 2000 and 2014 and is being provided as a template or guide in the preparation of a current job description. The essential functions are general in nature and may not accurately depict the duties of a specific unit. Managers are encourage to update and provide specific duties that are applicable to work being performed in the unit.***

Job Title: **Dosimetrist Research**

Job Family: Research Sub Family: Dosimetry

**Job Summary:**

The Research Dosimetrist is involved in coordinating quality assurance (QA) for assigned programs, assisting in developing radiation measurement and delivery methodologies and Standard Operating Procedures (SOPs) under guidance of the Principle Investigator. This position conducts radiation measurements, analyzes data, performs calculations of radiation dosage, and maintains databases to facilitate data analyses.

**Essential Functions:**

* Assist in the implementation of a quality assurance program across entire program to ensure compliance with established SOPs.
* Performing measurements of radiation generators to characterize radiation dose delivery; analyze measurements relative to established QA criteria; prepare reports of findings and presents results to Principal Investigator.
* Test and evaluate radiation dosimetry phantoms and equipment as needed for radiation dosimetry.
* Coordinates audits of maintenance of Remote Dosimetry Monitoring System (RDMS).
* Assists in coordinating scheduling, treatment planning, and treatment delivery and design of experimental radiation delivery protocols including imaging, computerized treatment planning, and assistance with radiation delivery as needed.
* Perform calculations of radiation dose delivered to subjects including 3D treatment plans as appropriate. Apply knowledge of radiation dosimetry to properly design and describe experimental irradiations.
* Perform quality assurance measurements of selected irradiations to verify accuracy of dosage delivery.
* Ensure safe use of radiation across all program activities; maintain conformance with regulations of the Maryland Department of the Environment (MDE).
* Maintain databases of irradiations, measurements, measurement systems, and results to facilitate data analysis.
* Provide technical support to Principle Investigator .
* Performs other related duties as assigned.

**Minimum Qualifications:**

Education:

Bachelor's Degree and graduation from a Medical Dosimetry “JRCERT” accredited program of at least 12 months AND Certification by the Medical Dosimetry Certification Board (MDCB)

OR

Bachelor of Science or Bachelor of Applied Science Degree AND Certification by the Medical Dosimetry Certification Board (MDCB)

OR

Associates Degree’s with three (3) years of validated dosimetry job experience AND Certification by the Medical Dosimetry Certification Board (MDCB)

OR

Certified American Registry Of Radiology Technologist (ARRT) with three (3) years of validated job dosimetry experience AND Certification by the Medical Dosimetry Certification Board (MDCB)

OR

Five (5) years validated dosimetry job experience AND Certification by the Medical Dosimetry Certification Board (MDCB)

Experience:

Supervisory:

Licensure/Certification: Certification by the Medical Dosimetry Certification Board (MDCB)

Other:

**Knowledge, Skills, and Abilities**

*Managers may provide prefered knowledge, skills, and abilities as necessary.*

Job Code: E3334F

SOC Code: 292034 IPEDS: Computer

EEO6 Code: Professional State Code: 9546102

USM eCode: E30331 AAP Code: 3A