***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 Senior**

Job Family: Research Sub Family: Dosimetry

**Job Summary:**

The Senior Research Dosimetrist is responsible for ensuring quality assurance (QA) for assigned programs, developing radiation measurement and delivery methodologies and Standard Operating Procedures (SOPs). This position independently conducts radiation.

**Essential Functions:**

* Responsible for implementation of a quality assurance program across entire program to ensure compliance with established SOPs.
* Responsible for 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 Principle Investigator.
* Test and evaluate radiation dosimetry phantoms and equipment as needed for radiation dosimetry.
* Coordinates audits of maintenance of Remote Dosimetry Monitoring System (RDMS).
* Coordinates 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 and provides recommendations to improve. Implement recommendations as needed.
* 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.
* Performs other duties as assigned.

**Minimum Qualifications**

Education: Bachelors Science or Applied Science degree

Experience: Five (5) years of validated dosimetry experience

Supervisory:

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

Other: No subsitution of experience for minimum education requirement.

**Knowledge, Skills, and Abilities**

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

Job Code: E3334G

SOC Code: 292034 IPEDS: Computer

EEO6 Code: Professional State Code: 9546102

USM eCode: E30331 AAP Code: 3A