

Eleena Mullooly

Medical Physicist

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☎ (466) 119-0652

📍 123 Main St, Rapid City, SD 57701

EDUCATION

Doctor of Philosophy in Medical Physics at South Dakota State University, Brookings, SD

Aug 2016 - May 2021

Relevant Coursework: Advanced Radiation Physics, Medical Imaging, Radiation Therapy, Radiobiology, Radiation Safety, Radiation Oncology, Medical Physics Research Methods, and Computational Physics in Medicine.

LINKS

[linkedin.com/in/eleenamullooly](https://www.linkedin.com/in/eleenamullooly)

SKILLS

Dosimetry

Brachytherapy

Radiobiology

Tomotherapy

Monte Carlo simulations

Image-guided radiotherapy (IGRT)

Intensity-modulated radiotherapy (IMRT)

LANGUAGES

English

Japanese

HOBBIES

Astronomy

Robotics and programming

PROFILE

Medical Physicist with 2 years of experience in providing exceptional clinical support in radiation therapy and diagnostic imaging. Demonstrated proficiency in treatment planning, dosimetry, and quality assurance procedures. Strong analytical skills and a commitment to staying current with technological advancements in the field. Team player with excellent communication and problem-solving abilities, contributing to improved patient care and clinical outcomes.

EMPLOYMENT HISTORY

● Medical Physicist at Black Hills Medical Physics, SD

Mar 2023 - Present

- Implemented a comprehensive quality assurance program for radiation oncology, resulting in a 20% reduction in treatment-related errors and improved patient safety.
- Developed and optimized treatment planning algorithms for advanced radiotherapy techniques, increasing treatment efficiency by 15% and reducing average treatment time by 10 minutes per patient.
- Spearheaded the successful integration of a new state-of-the-art MRI-guided linear accelerator system, increasing patient throughput by 25% and reducing wait times by 30%.
- Co-authored five research publications in high-impact medical physics journals, contributing to the advancement of knowledge in the field and raising the profile of Black Hills Medical Physics as a leading institution in the industry.

● Associate Medical Physicist at Monument Health, SD

Jul 2021 - Feb 2023

- Successfully implemented a new treatment planning system, resulting in a 20% increase in patient throughput and a 15% reduction in planning time for radiation oncology treatments.
- Optimized radiation therapy protocols, leading to a 10% improvement in treatment accuracy and a 5% reduction in patient side effects.
- Conducted research on advanced imaging techniques, resulting in two peer-reviewed publications and a 25% increase in the use of these techniques in clinical practice at Monument Health.

CERTIFICATES

American Board of Radiology (ABR) Certification in Medical Physics

Sep 2021

Commission on Accreditation of Medical Physics Education Programs (CAMPEP) Certificate

May 2020

MEMBERSHIPS

American Association of Physicists in Medicine (AAPM)