



Position: PostDoc - MRI Sequence Development
Location: Oakwood Village, OH

About ViewRay Systems

ViewRay Systems, Inc. is a technology company seeking to provide the global radiation therapy community with advanced medical instruments incorporating the most capable and highest level of technology possible. Our belief is that only significant technological innovation can enable society to conquer disease. Our mission is to dare to change the paradigms of medicine and solve “impossible” technical problems to enable clinicians to effect a cure to save precious human lives, mitigate pain and suffering, and enhance quality of life. Our vision is to become the world’s leader in producing highly-effective innovative technology to cure cancer.

ViewRay Systems designs, manufactures, and markets the MRIdian A3i® radiation therapy system. The MRIdian A3i system is designed to treat patients with the smallest radiation therapy margins available¹ with the highest patient throughput demonstrated for the most complicated cases²

The MRIdian A3i system treats by aligning the sharpest radiation therapy beam on the market to diagnostic quality magnetic resonance images (MRIs) of the patient, adapts the treatment plan to the reality of the patient, and then uses the real-time MRIs to control the beam and record real-time doses delivered to the patient.

If you are driven by a passion for innovation and want to be part of a team that is changing the world, we invite you to explore the opportunities available at ViewRay Systems.

Job Description

ViewRay is currently looking for a motivated MRI Physicist experienced in sequence development who will share our passion for conquering cancer and help us develop our groundbreaking MRI guided Radiation Therapy system. The ideal candidate is an adept problem solver and leader that can work through technical challenges and employ pragmatic solutions.

Responsibilities:

- Develop innovative high speed imaging techniques that approach real-time imaging in both 2D and 3D space.
- Develop fast imaging techniques, tailored for the radiation therapy space, that will provide the required definition while increasing patient throughput.
- Develop new calibration sequences and workflow on a new MRI platform.
- Work with a cross-functional team of engineers and scientists to translate promising prototypes into product while leading technical/clinical risk retirement.



- Provide technical expertise and support for projects with internal and external collaborators.

Required Qualifications

- Ph.D. in Physics / Electrical Engineering / Biomedical Physics / Biomedical Engineering, or equivalent.
- Strong background in MR physics and pulse sequence design.
- Expertise in MR imaging techniques and clinical applications.
- Substantial experience in C++/C software design, implementation, and coding.
- Experience using Matlab for signal and image processing.
- Ability to work independently, prioritize, and take initiative
- Ability to multi-task and follow through.
- Detail-oriented and organized.
- Skilled in MS office software applications (PowerPoint, Word, Excel).

Valued Qualifications

- Desire and bandwidth to expand to other disciplines.
- Experience with E&M modeling.

We offer competitive benefits, including:

- Health, dental, and vision insurance
- Paid time off and flexible schedule
- Office stocked with snacks, drinks, and occasional catered meals

Email inquiries to careers@viewraysystems.com

¹ [Kishan AU, Ma TM, Lamb JM, *et al.* Magnetic Resonance Imaging–Guided vs Computed Tomography–Guided Stereotactic Body Radiotherapy for Prostate Cancer: The MIRAGE Randomized Clinical Trial. JAMA Oncol. 2023;9\(3\):365–373. doi:10.1001/jamaoncol.2022.6558](#)

² [Claudio Votta, *et al.*, Evaluation of clinical parallel workflow in online adaptive MR-guided Radiotherapy: A detailed assessment of treatment session times, Technical Innovations & Patient Support in Radiation Oncology, Volume 29, 2024, 100239. doi:10.1016/j.tipsro.2024.100239](#)