Position: **Senior RF/Electrical Engineer**
Location: **Cleveland, 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 available[i] with the highest patient throughput demonstrated for the most complicated cases[ii]

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 an experienced, self-motivated Senior Electrical Engineer 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. You will work closely with mechanical engineering, control systems, software engineering, and other teams to develop systems from concept through final release.

- Design and develop RF focused electrical sub-system solutions from concept to production.
- Develop system and component level requirements for electrical components and modules.
- Perform analysis and develop testing methods that ensure the safe and effective design and operation of new products.
- Perform design and user failure mode and risk analysis for a safe and reliable product.
- Perform hands on activities such as prototype assembly, installation, and testing.
- Follow guidelines of internal design controls and change controls processes.

- Perform schematic design and work with the CAD team on PCB layout.
- Responsible for managing design files and system BOM.
- Provide technical support to external design and manufacturing partners.

Required Qualifications

- BSEE or other related degree
- 5 years of electrical engineering design experience.
- Able to quickly grasp user level or system requirements and translate into subsystem requirements and designs.
- Strong understanding of mixed signal circuit design and DSPs
- EMC compatible design/solution experience
- Circuit design and simulation tool experience (i.e. Altium, Matlab, spice).
- Excellent troubleshooting and debugging skills.
- Must be able to work around strong magnetic field.
- Require travel up to 10% to installation sites, vendor locations, and external design and manufacturing house.

Preferred Qualifications

- MSEE
- MRI RF Coil Experience
- Experience designing to various standards under IEC 60601 (Medical Electrical Devices).
- MRI spectrometer system design experience.
- Filter design and signal processing experience.
- Demonstrated technical leadership capability in integration activities
- Effective oral and written communication skills

At Viewray Systems, we will challenge your mind and capture your hearts, by changing the standard of care in radiation therapy.

Plus, 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

Reference: https://jamanetwork.com/journals/jamaoncology/fullarticle/2800541

[i] 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

[ii] 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