Senior MRI Safety Design Engineer

Description
Under general direction, works independently to design new products, fixtures, tools and processes and maintain existing products in a fast-paced cross-functional design environment. Stays current on new technologies and design practices related to MRI safety improvement and testing, and utilizes them in new designs. Exhibits quality in their work and pushes for excellence in themselves and others.

Job Duties
- Develops circuit designs towards improving device safety in MRI
- Applies advanced RF engineering and electromagnetism principles to circuit designs and test data to determine optimal design choices and solutions to issues
- Develops validated test fixtures and methods for MRI safety characterization testing
- Develops documentation and supporting analysis
- Develops new designs independently while effectively leveraging other team members
- Plans and coordinates design activities with larger product development team to assure project completion
- Investigates and addresses key issues with existing products
- Mentors and trains other design engineers
- This is a non-supervisory role

Required Qualifications
- Bachelor’s degree in Electrical Engineering or related field
- 7+ years of relevant electrical engineering experience
- Demonstrated experience with high frequency design techniques
- Working knowledge of electromagnetism
- AIMD (Active Implantable Medical Device) MRI safety experience with a working knowledge of ISO/TS 10974
- Key contributor to multiple PCB product development cycles
- Solid understanding of high-speed signal-integrity physics and EMI mitigation techniques
- Strong verbal and written communication skills with ability to communicate at multiple levels of the organization

 Desired Qualifications
- Advanced degree in Electrical Engineering or related field
- Experience with Altium Designer
- Experience with medical device design
- Experience with software development