Columbia University's Mortimer B. Zuckerman Mind Brain Behavior Institute supports interdisciplinary neuroscience research and discovery by scientists and scholars across the university and promises to be the most comprehensive institute for brain science.

The Zuckerman Institute seeks a highly skilled individual to support the MR Research Director. The MR Safety Officer role is critical for assuring the safety and success of the research using MRI systems within a laboratory environment.

Responsibilities include but not limited to the following:

* Maintaining safe working procedures for the MR environment, including the provision of MR safety education and training. Introducing safety improvements in conjunction with and under the authority of the Director of MR Research. Ensuring MRI safety and compliance with FDA, IRB, IACUC and Columbia regulations, practices and policies. Provide MR User training, safety policy enforcement, IRB and IACUC support and review, and MR volunteer consent.
* Working with Investigators to provide safety input on the development and modification of MR protocols. This includes performing MRI RF safety assessment with numerical and experimental methods and EM simulation for human subject RF safety.
* Ensuring that all Investigators who are responsible for personnel who will be involved with the MR system are informed of the formal procedures for training and authorization. Ensuring that staff groups and students who may be exposed to the MR environment are educated appropriately on a regular basis as to the safety requirements and updated as necessary.
* Ensuring that adequate written safety procedures, work instructions, emergency procedures and operating instructions are issued to all concerned. Ensuring that proper policies and procedures for day-to-day MR safety are enforced. This includes ensuring that there is a clear policy for the purchasing, testing, and marking of all equipment that will be taken into the MR-related critical areas.
* Being readily accessible and available (e.g., to the operators of the MR system) at all times that the MR facility is accessible.
* Managing an MR safety laboratory, conducting MR safety related research, collaborating with MR safety projects, implementing new MR safety methods
* Disseminating research results through patent applications, grant applications, abstracts, publications, training and presentations
* Mentor students, train, support and collaborate with staff and faculty of investigators; performs additional duties and special projects as assigned.

Minimum Qualifications: Ph.D. in physics, electrical engineering, mechanical engineering or biomedical engineering with minimum five (5) years of experience. Exceptional written and oral communication skills.

Preferred Qualifications: Specific training in electromagnetic modeling, thermodynamic / heat transfer modeling, RF power electronics, RF power testing, thermometry, calorimetry, and magnetic resonance imaging physics highly desired. AAPM certification also highly desired.

Apply: Use the direct link https://bit.ly/2KnJtSy