Columbia University's Mortimer B. Zuckerman Mind Brain Behavior Institute seeks an Associate Research Scientist to serve as the Magnetic Resonance (MR) Physicist to support the Magnetic Resonance core group. This role is a vital member for the Institute's MR core. Reporting directly to the MR Research Administrator, the individual supports Principal Investigators with their experiment design and implementation of their experiments using the MR systems at the Zuckerman Institute.

Candidates must possess a strong academic background in MR Imaging to advise faculty and staff on the data that can be acquired within a given system. The individual will be expected to collaborate with the investigators on designing the experiment and the data acquisition protocols required. Serves as an expert in radio frequency (RF) and field gradient protocol programming on Siemens and Bruker MR Systems, as well as an expert in RF power management, including specific absorption rate (SAR) and temperature predictions and monitoring. Supports the faculty with the analysis and interpretation of data, while monitoring, evaluating and maintaining top MR system performance through data observation and analyses. Serves as the MR Safety Officer for the MR Core, in charge of approving all studies. The Physicist works with Investigators to prepare IRB and IACUC protocols and applications. Collaborates with faculty and Zuckerman Principal Investigators, vendor engineers and the Director of MR Research to customize MR systems to meet specific applications needs. Together with the Investigator and other MR Core team members, the MR Physicist attends to every need required for a successful experiment on the MR systems. Possesses an expert's familiarity with Siemens and Bruker system operations, pulse protocols and programming languages. Provides additional support on special projects to facilitate and extend research conducted at the Zuckerman Institute.

The MR Core will help the investigator to non-invasively observe the anatomy, the function, and the biochemistry of humans and preclinical models In-vivo. With a talented laboratory equipped with the most advanced magnetic resonance (MR) instruments, anatomic features can be resolved and contrasted to sub-hundred-micron spatial resolution with magnetic resonance imaging (MRI). Brain function and behavior can be correlated to an infinite number of stimuli through functional magnetic resonance imaging (fMRI) with sub 100mm temporal resolution. Magnetic resonance spectroscopy (MRS) will be used to measure metabolism in uninterrupted, living systems. For investigating and diagnosing the human mind and body in health, disease and therapeutic intervention, the MR Core offers a most comprehensive and powerful means.

The Zuckerman Institute brings together researchers to explore aspects of mind and brain, through the exchange of ideas and active collaboration. The Zuckerman Institute's home will be the Jerome L. Greene Science Center on Columbia's new Manhattanville campus. More information about the Mortimer B. Zuckerman Mind Brain Behavior Institute can be found at: www.zuckermaninstitute.columbia.edu

Women and minorities are encouraged to apply.

**POSITION REQUIREMENTS:**
Ph.D. in MR Physics, including at least five (5) years of related experience is required. Strong candidates will be interested and focused on interdisciplinary work. Prior experience in a research environment highly desired.

The successful candidate must be flexible in nature, have a sound judgment with a collaborative style that fosters teamwork and cooperation beyond the immediate team to the broader organization. Must have a passion for excellent customer service and commitment to exceptional quality.

The Zuckerman Institute brings together researchers to explore aspects of mind and brain, through the exchange of ideas and active collaboration. The Zuckerman Institute's home will be the Jerome L. Greene Science Center on Columbia's new Manhattanville campus.

More information about the Zuckerman Mind Brain Behavior Institute can be found at: www.zuckermaninstitute.columbia.edu

To be considered an applicant, all interested parties **MUST** apply through the Columbia University online employment application system. Paste the following quick link into your browser to access this position posting: http://bit.ly/2gy1OPA

Columbia University is an Equal Employment / Affirmative Action Employer