The College of Human Ecology has over 100 years of academic excellence and community outreach woven into its respect for tradition with a spirit of innovation. The College’s mission is to advance and improve the human experience by integrating academics, research and outreach in the areas of nutrition and health, design and technology, human development and public policy. We house state of the art research facilities, and we are the hub for Cornell University’s research and academics in family, health, social and consumer policy. The Cornell Magnetic Resonance Imaging Facility (CMRIF) is a state-of-the-art research-dedicated facility and is equipped with a GE Discovery MR750 3.0T scanner. It is a university-wide resource that provides noninvasive imaging for a wide range of structural and functional investigations, including human neuroscience.

The MRI Scientist will provide operational oversight of the MRI scanning facility, and will focus on Magnetic Resonance physics and engineering development. The primary role of this position is to maintain operations of the MRI scanner facility and assist faculty investigators in utilizing the MRI scanner. The MRI Scientist will refine and develop operating protocols, ensure daily operation, maintenance, and calibration of the scanner and peripheral equipment; assist faculty, students and external users with MRI training; grow the user base and oversee CMRIF staff and students, promoting safe operation of the facility.

In addition to oversight of the facility, there will be opportunity to collaborate on projects and direct personal research activities. Specific research interests including, but not limited to, advanced neuroimaging applications (e.g. fMRI, quantitative diffusion imaging, arterial spin labeling, and T2 relaxometry), sequence development and/or hardware development would be suitable. You will collaborate and be open to collaboration with faculty at Cornell University and Weill Cornell Medicine. It is expected, that the MRI Scientist will pursue federal, philanthropic, and industry funding to support personal research.

Specific responsibilities include:

- Development of imaging resources at the CMRIF
- Recommend and/or develop image acquisition and analysis tools relevant to the current research interest of faculty
- Provide technical and study support for faculty, staff and students performing research at the MRI facility including data storage/access, protocol development, and acquisition troubleshooting
- Oversee the maintenance and operational quality of the MRI Scanner
- Develop and maintain safety protocols; ensure safe operation of facility
- Supervise the MRI technician and operate the scanner when needed
- Participate in cutting edge basic, translational, and/or clinical research; and oversee personal research laboratory
- Engage in the education of students and faculty including, but not limited to, undergraduates, graduate students, medical students, residents, postdoctoral fellows, and faculty
- Support investigators with assistance in designing research strategies and letters of support for grant applications
- Promote the facility, actively seek new users and grow the user base
- Participate in the research and purchase of equipment, software and peripherals
- Provide advice and/or assistance for data handling, processing, and analysis

Minimum Qualifications:

- PhD in physics, engineering, neuroscience or related field
- Strong background experience in operating and maintaining an MRI Scanner, specifically performing MRI scanner QA and pulse sequence protocol development
- Basic system administration knowledge
- Basic computer scripting knowledge (Linux bash scripts)
• Knowledgeable about MRI data handling and processing
• Experience in a research setting
• Strong interpersonal and communication skills
• Excellent initiative, independence and problem-solving skills
• Ability to make sound and mature decisions.
• Ability to manage multiple projects and competing demands
• Administrative experience preferred

Applicants must apply through Academic Jobs Online at: https://academicjobsonline.org/ajo/jobs/16030 and upload a cover letter, CV, diversity statement and contact information for three references.

Review of applications will begin immediately and will continue until position is filled.

Cornell University, located in Ithaca, New York, is an inclusive, dynamic, and innovative Ivy League university and New York’s land-grant institution. Its staff, faculty, and students impart an uncommon sense of larger purpose and contribute creative ideas and best practices to further the university’s mission of teaching, research, and outreach.

Diversity and Inclusion are a part of Cornell University’s heritage. We are a recognized employer and educator valuing AA/EO, Protected Veterans and Individuals with Disabilities. We also recognize a lawful preference in employment practices for Native Americans living on or near Indian reservations.