

Research Scientist
Beckman Institute for Advanced Science and Technology
University of Illinois at Urbana-Champaign

The Biomedical Imaging Center (BIC) at the Beckman Institute for Advanced Science and Technology at the University of Illinois Urbana-Champaign seeks applicants to fill the position of Research Scientist in Magnetic Resonance Imaging. The purpose of this position is to perform support and development functions for human cognitive neuroscience and other experiments on the Siemens 7 T Terra system that is part of a partnership with Carle Foundation Hospital and will be sited in the newly formed Carle Illinois Center for Advanced Imaging. Applicants must be able to contribute, implement, and maintain driving MR technology for cognitive neuroscience applications at ultra-high field, including pulse sequence programming, protocol development, MR safety, and development of processing pipelines.

The University of Illinois is an Equal Opportunity, Affirmative Action employer that recruits and hires qualified candidates without regard to race, color, religion, sex, sexual orientation, gender identity, age, national origin, disability or veteran status. For more information, visit <http://go.illinois.edu/EEO>.

Duties and Responsibilities:

- Provide training and technical support to investigators and technologists, including setting up and troubleshooting imaging protocols to help them acquire world-class data at 7 T
- Develop pulse sequences and/or imaging methods that target specific applications at ultra-high field in collaboration with faculty at Beckman Institute at the University of Illinois and in collaboration with clinical faculty at Carle
- Meet with potential users from a variety of disciplines to assess feasibility of studies
- Assist in the planning and execution of routine maintenance routines to ensure maximum availability of scanners and peripheral equipment (stimulus presentation and response systems along with other associated devices at the Carle Illinois Center for Advanced Imaging)
- Work with Carle staff, research and clinical technologists, and other BIC staff to develop and implement safety protocols for 7 T and ensure user compliance
- Maintain integrity of protocols through development of procedures to encourage robust and reliable execution of the protocols by the research staff
- Develop and conduct educational presentations and perform outreach related to ultra-high field MRI
- Act as a liaison with Siemens and prepare research agreement compliance materials
- Act as a liaison with MR-related equipment manufacturers

Minimum Qualifications:

- PhD degree in MR engineering related field such as Biomedical Engineering or Electrical Engineering or other related technical field
- At least 2 years' experience in an MRI lab running human cognitive neuroscience research studies with structural and functional MRI
- At least 2 years' experience in pulse sequence development in the Siemens IDEA environment

Preferred Qualifications:

- At least 2 years' experience as a Biomedical Engineer or related field in at least **two** of the following areas:
 - MRI physics
 - MRI research on a 7 Tesla MRI
 - Stimulus presentation and response systems for functional MRI
 - Experience with Diffusion MRI, Tractography and MR Spectroscopy
 - Experience using data analysis packages such as FSL, SPM, or AFNI

The Research Scientist is a full-time, benefits-eligible Academic Professional position. Salary is commensurate with qualifications and experience. In order to ensure full consideration, application must be received by January 15, 2021. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after that date. The expected start is as soon as possible after the closing date. To apply, please create your candidate profile at <http://jobs.illinois.edu> and upload your cover letter, resume, and names/contact information for three professional

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references as a single PDF file by January 15, 2021. All requested information must be entered for your application to be considered. For further information, please contact Beckman Institute Human Resources at hr@beckman.illinois.edu.

The University of Illinois conducts criminal background checks on all job candidates upon acceptance of a contingent offer.

As a qualifying federal contractor, the University of Illinois System [uses E-Verify](#) to verify [employment eligibility](#).

The University of Illinois System requires candidates selected for hire to disclose any documented finding of sexual misconduct or sexual harassment and to authorize inquiries to current and former employers regarding findings of sexual misconduct or sexual harassment. For more information, visit "[Policy on Consideration of Sexual Misconduct in Prior Employment](#)."