

The *Cognitive Neuroscience and Imaging Center* at Florida International University (FIU) in Miami is seeking a full-time, benefits-earning Visiting Postdoctoral Fellow with expertise in magnetic resonance imaging (MRI) physics, with emphasis on functional MRI and diffusion-weighted MRI. The successful candidate will join a team of investigators to develop, support, facilitate, and coordinate daily data collection activities for the **Adolescent Brain Cognitive Development (ABCD) Study**: a landmark multi-site NIH study to assess the short- and long-term impact of substance use on brain development (<http://addictionresearch.nih.gov>).

The successful candidate will develop, deploy, and optimize multiband fMRI and high angular resolution diffusion imaging (HARDI) acquisition protocols for use at 3T. She/he will contribute to deploying these MRI techniques, as well as prospective motion correction (PROMO), and fast, integrated distortion correction methods. These methods will be collectively applied in a large, longitudinal study designed to advance addiction science through a strong focus on developmentally informed assessment. The primary duties/responsibilities of the position involve direct engagement in magnetic resonance imaging (MRI) data collection efforts, including (but not limited to): protocol development and management, execution of research plan, implementation of experiments, data acquisition, and data management.

Applicants must have a PhD in physics, biomedical engineering, radiological sciences, computer science, or a related field. Candidates must have a strong background in MR physics, as well as strong skills in computer programming (e.g., python, MATLAB). Applicants must have experience in MR scanner operation and software, image reconstruction, advanced data analysis (e.g., FSL, AFNI). Experience in multiband fMRI and/or HARDI imaging technology, and familiarity with data harmonization across multi-center imaging studies are highly desired. The applicant should ideally possess outstanding writing and communication skills as demonstrated by a successful publication record.

The starting date for this position is January 1, 2016, and the salary will be commensurate with experience. To apply, please include all documents in one PDF file: cover letter, CV, a one-page statement describing your qualifications and research interests, contact information for two references, and copies of up to two of your publications. Applications should be sent via email to: cnic@fiu.edu. Review of applications will begin immediately.

For informal enquiries regarding this position, please contact Dr. Angela Laird (alaird@fiu.edu).

Additional information about the Center can be found at <http://cnic.fiu.edu>, and more information about the ABCD Project can be found at <http://www.drugabuse.gov/news-events/news-releases/2015/09/nih-launches-landmark-study-substance-use-adolescent-brain-development>.