The Neuroimaging Research Core at the Marcus Autism Center in the Department of Pediatrics at Emory University, in collaboration with the Biomedical Imaging Technology Center in the Department of Biomedical Engineering at Emory University/Georgia Tech, is offering a full time position as Postdoctoral Research Fellow /Research Associate.

The Neuroimaging Research Core at Marcus is currently conducting two large-scale MRI studies: The first longitudinal study is to understand the typical brain development in infants from 0 to 6 months as well as the impact of autism spectrum disorders (ASD) to the early brain development. The second one involves the study of brain development in school-aged children, with the focus on the neural developmental unfolding of ASD and its relationship with the subjective perceived salience.

The Biomedical Imaging Technology Center is a research center of the Wallace H. Coulter Department of Biomedical Engineering, a joint department of Georgia Tech and Emory University specializing in the technical development of MRI. The Marcus Autism Center is a not-for-profit organization dedicated to the diagnosis and treatment of children with Autism Spectrum Disorders (ASD). It is the country’s largest center for clinical care of children and adolescents with ASD, with more than 5,000 unique children and their families served each year. The Center is also one of the national hubs of science in the field of developmental disabilities, designated by NIH as an Autism Center of Excellence.

Applicants should have a Ph.D. degree in Biomedical Engineering, MR physics, Computer Sciences, Neuroscience, Psychology or related fields, as well as research experience in MRI image analyses. Prior experience with diffusion MRI is especially preferred. Experience with MRI analysis software packages (i.e., FSL, AFNI for diffusion and functional MRI data analyses) and computer programming skills (MATLAB, C/C++ & Bash scripts) are required.

The applicant will be expected to i) develop computational and statistics methods to analyze neuroimaging data (especially structural and diffusion MRI data) from infants and school-aged children; ii) design and implement novel dedicated equipment for optimizing data collection from infants and children; iii) participate in acquiring neuroimaging data; iv) prepare manuscripts and extramural grants, and (v) collaborate with MRI physicists, social neuroscientists, engineers, and clinicians. The position-holder will be co- mentored by and closely collaborate with Drs. Longchuan Li (Marcus Autism Center & Biomedical Imaging Technology Center), Xiaoping Hu (Director of Biomedical Imaging Technology Center), Sarah Shultz (Co-Director of Neuroimaging Core at Marcus Autism Center).
Center) and Warren Jones (Director of Social Neuroscience Lab at Marcus Autism Center).

The position is available immediately and the initial appointment is for one year. Renewal is expected if progress is satisfactory. Emory University School of Medicine offers competitive benefits and salary package and has been ranked high as one of the “Best Places to Work for Postdocs”. Interested candidates should email to Dr. Longchuan Li (lli36@emory.edu), with a cover letter and CV. Qualified candidates will be asked to have 3 letters of reference forwarded to Dr. Li.

Related publications:

