

Postdoctoral Research Fellow: Clinical and Translational MRI Guided Focused Ultrasound Post-Doctoral Research Position

The Cleveland Clinic has an immediate opening for a post-doctoral student to work with a team experienced in translational neuroscience research and innovation to discover new applications for Low and High Frequency MR-Guided Focused Ultrasound (MRgFUS). Clinical use of the 650 kHz system high frequency ultrasound unit has been underway for more than four years. In addition, we also use a 220 kHz low frequency ultrasound system for clinical research trials.

The applicant will participate in the design and implementation of a multifaceted research program and gain exposure to a diverse range of opportunities in the clinical neurosciences centering on movement disorders, but also including epilepsy, cerebrovascular diseases including intracerebral hemorrhage, pain, neuropsychiatry and neurononcology. The position is estimated to last 2-3 years during which time the applicant will gain extensive clinical expertise with the MRgFUS on a Siemens platform. In addition, they will have access to state of the art imaging, including 7T MRI while working collaboratively with clinical staff and directly interacting with patients. It is expected, they will be well prepared after this role is completed and have a clear pathway to enter academia or industry. It is anticipated that this work, the primary aim of which is to develop new indications, will lead to multiple publications and potentially also patentable ideas.

The Cleveland Clinic is the major hospital system in northeast Ohio and attracts patients worldwide. The Neurological Institute alone exceeds 227,000 annual patient visits and 15,500 annual admissions.

Qualified applicants should have a PhD in either biomedical engineering, physics, or the imaging sciences. Prior experience with MRgFUS is preferred, but not essential. Knowledge of the neurosciences is useful but not essential. Experience with hands-on computer programming is highly useful as is familiarity with small or large animal models. Applicants should have sufficient writing skills permitting grant preparation and application. The appointment would be jointly held between the Neurological and Imaging Institutes.

Please send inquires and a CV to Dr. Sean Nagel (nagels@ccf.org) or Dr. Stephen Jones (jones19@ccf.org)