

Postdoctoral Fellowship Position in Functional Neuroimaging and Cognitive Neuroscience

Northwestern University

Cognitive Neuroscience Laboratory, Rehabilitation Institute of Chicago

Duration: 2 years (option to renew for additional years)

Start date: Summer/Fall 2015 (start date is negotiable)

Salary: Depends on experience, in accordance with NIH Guidelines

For further information, applicants should contact:

Jordan Grafman, Ph.D.

Director, Cognitive Neuroscience Laboratory

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Overview:

The focus of research in the Cognitive Neuroscience Laboratory is on identifying functions of the human prefrontal cortex (including decision making, reward processing, social cognition, action planning, etc.), as well as studying functional neuroplasticity during recovery of function after brain injury. The operating framework to study these processes and their disorders is based on cognitive science theory, and we combine this approach with techniques such as structural and functional MRI, voxel-based lesion-symptom mapping (VBLSM), transcranial magnetic stimulation (TMS), transcranial direct current stimulation (tDCS), and genetic testing. The laboratory studies healthy participants as well as a variety of patients with focal and diffuse brain injury. The Cognitive Neuroscience Laboratory is located in the Rehabilitation Institute of Chicago, on the Northwestern University medical campus in downtown Chicago. The laboratory provides ample opportunity for the development of innovative, focused research and a broad collaborative cognitive neuroscience experience.

Structure of the Fellowship:

The fellowship is designed to provide training in the skills necessary to conduct original research in cognitive neuroscience, as well as to foster the development of an independence research career. The training environment is highly collaborative and supportive, and applicants should be prepared to work collaboratively both within the laboratory and with the academic/clinical communities at Northwestern University and the Rehabilitation Institute of Chicago. The fellowship also encourages collaboration and training at the national level, by providing opportunities to attend workshops, conferences, seminars, etc., based on the particular interests of the fellow.

Required Qualifications:

Position qualifications include a Ph.D. in neuroscience, psychology, or a related field. The successful applicant will have expertise in fMRI data acquisition and analysis, strong skills in statistical and experimental methods, and experience conducting research in cognitive neuroscience. Experience with neuroimaging analysis programs (AFNI, FSL, SPM, or other relevant programs), stimulus presentation programs (E-prime, Presentation, Superlab, Cogent/Psychtoolbox [MATLAB]), and statistical analysis (MATLAB, R, SPSS) are also required. Excellent scientific writing skills and strong publication records are highly desired. Applicants should be able to work independently and with minimal supervision, but should also demonstrate interpersonal skills and an interest in working collaboratively. Salary and benefits are competitive. Candidates should submit a CV, statement of interest, and three letters of recommendation to Dr. Jordan Grafman (jgrafman@northwestern.edu).