



Postdoctoral Research Fellowship  
Decision Neuroscience Laboratory  
University of Nebraska-Lincoln

The Decision Neuroscience Laboratory at the Center for Brain, Biology, and Behavior (CB3) at the University of Nebraska-Lincoln is seeking applicants with expertise in fMRI research design and data analysis to engage in co-investigation and consultation with faculty and student researchers conducting fMRI research. The goal of this fellowship is to conduct state-of-the-art functional and structural MRI studies of the human connectome with an emphasis on characterizing the topology and dynamics of human intelligence. In addition, the Postdoctoral Research Fellow will have the opportunity to lead applied research projects that examine cognitive and neurobiological phenotypes of elite military populations, for example, through projects sponsored by the DARPA TAILOR Program, the DARPA Measuring Biological Aptitude Program, and the Human Performance Wing (STRONG Lab) of the Air Force Research Laboratory.

The Decision Neuroscience Laboratory is housed at CB3, an interdisciplinary, research-dedicated center that engages a broad spectrum of investigators across disciplines, including basic and applied scientists, clinicians, and engineers, and is actively involved in a unique research collaboration with Nebraska Athletics. The centerpiece of the 30,000-square-foot facility is a 3 Tesla scanner equipped with an MR-compatible 256-electrode high-density EEG system and an eye tracker. The center also features specialized laboratories for behavioral genetics, eye tracking, high-density EEG/ERP, NIRS, and psychophysiology, as well as a salivary bioscience laboratory. The center's state-of-the-art facilities and interdisciplinary environment enable diverse studies to expand the understanding of brain function and its effects on human behavior.

The successful candidate will assist experienced fMRI researchers with project development, experimental design, and data analysis, as well as provide consultation and assistance in fMRI research design and analysis to researchers less experienced with fMRI. As such, the position includes opportunities for grant co-investigation and co-authorship in dissemination activities.

A Ph.D. in Psychology, Neuroscience, or a related field plus at least four (4) years of experience conducting fMRI research, including years of education are required. Demonstrated training and expertise in fMRI research design, including programming of fMRI stimulus delivery paradigms, as well as training and expertise in fMRI data processing and analysis software (e.g., AFNI, FSL, SPM); co-authorship of scholarly work involving fMRI; and excellent communication skills and experience contributing to a productive fMRI research group are also required. Preference will be given to candidates with five (5) years of experience conducting fMRI research, including years of education and postdoctoral experience; demonstrated training and expertise in the integration of fMRI research design and analysis with other complementary methodologies, such as structural MRI/DTI, EEG/ERP, eye tracking, and/or psychophysiology; scripting and programming skills (e.g., R); and evidence of independence in fMRI research, grant writing, and publication.

Review of applications begins December 6, 2024 and will continue until the position is filled. To be considered for the position, please go to <https://employment.unl.edu>, requisition F\_240182, and click "Apply for this Job". Candidates will be required to attach a letter of interest, curriculum vitae, and contact information for three (3) references.

As an EO/AA employer, the University of Nebraska considers qualified applicants for employment without regard to race, color, ethnicity, national origin, sex, pregnancy, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, marital status, and/or political affiliation. See <https://www.unl.edu/equity/notice-nondiscrimination>.