Postdoctoral Fellow in Computational Neuroscience [01Sep2009]
Psychology Department
University of Wisconsin-Madison
1202 West Johnson Street.
Madison, WI 53705

Job Description:
An opening is now available in a NSF-funded (David Devilbiss) and NIH-Funded (Craig Berridge) laboratory to study the neurocomputational basis of fronto-striatal function. This position will compliment the existing focus of the laboratory that includes understanding the interaction between central monoamine and neuropeptide systems, their modulation of individual neuron and distributed neural coding, and its relation to cognitive and behavioral changes (psych.wisc.edu/devilbiss). In addition, this position permits the development and application of forward and reverse (encoding and decoding) models to multi-channel spike train activity recorded from rodents performing delayed-response tasks of working memory. A Ph.D. in computational neuroscience, neuroscience, statistics, or comparable background is required. Experience with Matlab, R, multivariate statistical models, and a working knowledge of electrophysiology are highly desirable. Qualified candidates should email their CV, research statement, a list of 3-5 references, and one recent publication (.pdf or LaTex) to Dr. David Devilbiss ddevilbiss 'at' wisc.edu or mail to University of Wisconsin, Psychology Bldg., 1202 W. Johnson St, Madison, WI 53706.

Job Requirements:
Required: Ph.D. in Computational Neuroscience, Neuroscience, Biomedical Engineering, Statistics, or comparable background.

An excellent candidate will be highly trained in a statistical/mathematical background with programming experience utilizing Matlab, R, multivariate statistics, and computational models. Additionally, a working knowledge of neuroscience, electrophysiological techniques, and electrical engineering will also be important to the position.