We are studying the effects of mental effort on the occurrence and termination of epileptiform activity, recorded from subdural electrodes in patients in the Johns Hopkins Epilepsy Monitoring Unit. A research assistant is needed to aid in analysis of these recordings.

The position primarily involves extensive analysis of electrocorticographic (ECoG) recordings, in particular using MATLAB.

It also involves literature search and review, assistance with organizational aspects of manuscript preparation, including preparation of graphic summaries of the results, and some data preparation and marking. Other duties include maintaining an organized and efficient summary of findings using spreadsheets, word processing and database entry, and other duties as may be assigned.

Good knowledge of MATLAB is essential. Methods to be used include transfer entropy, and graph and small world analyses. Organizational skills and attention to detail are necessary. Understanding of and experience with electrophysiologic recordings, and of marking electrophysiologic recordings, would be helpful.

For more information:
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