

# Post-Doctoral Candidate in Perinatal Brain Research Laboratory

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❖ **Research associate and post-doctoral candidate positions** are available starting **April 2017**.

❖ Our laboratory is concerned with understanding the effects of brain ischemia/inflammation on brain injury and blood-brain barrier permeability to cytokines during development and potential anti-cytokine neuroprotective strategies using the large animal translational fetal sheep and neonatal rodent models.

❖ **The work will yield neuroprotective strategies that will potentially prevent the development of brain injury and cerebral palsy in infants.**

❖ Participate in experiments in pregnant sheep and neonatal rats including: **surgical preparation**, physiologic studies, molecular biology, behavior, immunohistochemistry, immunological analysis and EEG analysis in the fetal sheep and neonatal brains and computerized analysis of hemodynamic measures in the fetus.

❖ This exciting neuroscience opening in an extremely productive laboratory will permit the post-doctoral candidates **extensive opportunity for publication in prestigious peer review journals and to learn to write grants..**

❖ For post-doctoral candidates, Ph.D. degree required, along with neuroscience expertise, familiarity with neuroscience bench work techniques including molecular biology, immunohistochemistry, cell culture, antibody, protein production and proven writing ability (MS will be considered). Experience with **surgical procedures (large animal and/or Vannucci neonatal rat models), neurobehavior, MRI**, radioactive materials, data acquisition, and statistical analysis is preferred.

❖ An **ideal position** for a dedicated, hard working, recent Ph.D. graduate (for post-doctoral candidates) willing to make a commitment for 2-5 years to **funded RO1 and 2 R21 grants.**

**Contact:** Dr. Barbara Stonestreet at (401) 274-1122, x47429 or at [Bstonestreet@wihri.org](mailto:Bstonestreet@wihri.org)