A DoD/NIH-funded postdoctoral fellowship is available as early as September, 2020 in the laboratory of Dr. Heather Patisaul for work related to endocrine disruption, brain development, placental function, and social behavior. Specifically, this project will use rats and prairie voles to establish the degree to which developmental exposure to persistent pollutants affect the development and function of neuroendocrine pathways related to social behavior and forebrain development. The Patisaul lab is housed in the department of Biological Sciences and the Center for Human Health and the Environment (CHHE) at NC State University. We use a variety of models and tools in our research including RNAseq, immunohistochemistry, confocal microscopy, and behavioral testing. Our primary area of focus is endocrine disruption of the developing brain and placenta.

Candidates should have a Ph.D. or equivalent in Neuroscience, Toxicology, Endocrinology or related discipline, be highly motivated, and able to work both independently and as part of a team. Experience with voles is considered particularly desirable, as is experience with placental endocrinology, sexual differentiation, and/or biology/biochemistry techniques related to neuroanatomy and neurodevelopment. Specific skills of interest include RNAscope, RNAseq and other sequencing approaches, in vitro placental models, and mass spectrometry of small molecules. A background in endocrine disruption or toxicology is not required. Successful candidates will possess a strong track record of publication in top toxicology, neuroscience and/or neuroendocrinology journals, and possess a strong desire to perform high impact, translational work in Environmental Health.

Research conducted by the neuroscience-oriented faculty in the CHHE focuses largely on brain and behavior, with special emphasis on epigenetics, sex differences, and gene by environment interaction. Additional faculty strengths include bioinformatics, genetics/genomics, and metabolomics/proteomics. NC State University is part of the Research Triangle, which is home to dozens of research institutes, NIEHS, EPA, Duke University and UNC Chapel Hill. Thus, the opportunity for networking and career development is exceptional.

Please send CV with names of three references and a statement of research interests that discusses your particular fit within our research program to hbpatisa@ncsu.edu.