POSITION DESCRIPTION
University of British Columbia

JOB TITLE: Statistician
JOB LEVEL: Faculty
FACULTY: Medicine
DEPARTMENT: Family Practice
FULL TIME/ PART TIME: Hourly as required (approx. 60 hours/year)
DESIRED START DATE: Sept 1st, 2022
JOB END DATE: Min 1 year commitment
FUNDING TYPE: Grant funded
SALARY: Hourly

JOB SUMMARY

The overarching goal of the UBC Perinatal Anxiety Research Lab is to improve the lives of pregnant and postpartum people via research activities related to perinatal anxiety and anxiety disorders. Anxiety and anxiety related disorders impact over 20% of perinatal women and are significantly more common than is perinatal depression. Our current projects include studies of fear of childbirth, new mothers’ thoughts of infant-related harm, postpartum obsessive-compulsive disorder, infant safety, and screening and treatment for perinatal anxiety.

We are seeking a statistician to help with the data analysis and statistical needs of the lab.

ORGANIZATIONAL STATUS

The chosen candidate will report to the principal investigator, Dr. Nichole Fairbrother and will work independently as well as collaboratively with members of Perinatal Anxiety Research lab.

WORK PERFORMED

- Provide support for the development and maintenance of data collection.
- Provide analytical support for research by using quantitative data analysis using descriptive and statistical methodologies.
- Perform quantitative data analyses using advanced statistical methodologies and statistical software.
- Identify and provide advice about data limitations and ensure adequate data quality for analytic purposes.
- Collaborate on writing scientific papers and abstracts by providing statistical results, writing methods and results and preparing tables and figures.
- Collaborate on writing grant proposals, providing a priori power and sample size calculations.
- Serve as a statistical resource on experimental design, statistical methodology and theory.
- Develop the statistics, programming strategy and plans for a project, and identify milestones.
- Evaluate and recommend statistical methods for data analysis.
- Remain up to date on new initiatives, developments and trends in statistical analysis through literature review, contact with peers at other organizations, professional associations and attendance of conferences, seminars, workshops and education programs. Communicate information and make recommendations to Supervisor for evaluation and approval
- Develop useful and insightful information from a variety of data sources
- Develop programs, methodologies, and files for analyzing and presenting data
- Use and support database applications and analytical tools: evaluate data quality, applications, and functions, produce output and maintain operation
- Data retrieval and management of databases for cohort-based studies, including writing computer programs and macros to capture and edit data
- Maintaining confidentiality in dealing with all matters
• Performs other duties as required

CONSEQUENCES OF ERROR/IMPACT ON DECISIONS
The incumbent is required to conduct all research activities in an ethical manner, suited to the proper activities of the University of British Columbia and to the professional organizations governing themselves and those governing the activities of the Director and all other investigators. This work is performed within well-defined guidelines. Any procedures or data recorded as part of a work must be accurate and must accurately reflect the work performed. Strict confidentiality of all study participants must be adhered to. All activities involving participants are accountable to the Principal Investigator, the Department Head, and the candidate’s governing professional organization.

SUPERVISION RECEIVED
The incumbent will work under the general supervision of Principal Investigator, who is located in Victoria, BC, and the lab manager. New or unusual problems will be referred to a superior. The Principal Investigator will supervise and support all research activities.

SUPERVISION GIVEN
The incumbent will have no supervisory responsibilities.

MINIMUM QUALIFICATIONS

Education and Experience:
• Master's degree in Statistics, Biometrics, Biostatistics and/or related experience in data analysis, and writing statistical analysis, plans and reports.
• Advanced knowledge of descriptive statistics, statistical inference, and modelling.
• Knowledge of database management principles.
• Strong analytical, problem solving and system analysis skills including the ability to comprehend complex issues and related data/information and present information in concise meaningful ways.
• Experience working with a variety of information systems and data files, including large and complex files: analyzing file structure, using and creating file layouts, transforming raw data into finished product.
• Familiar with various types and sources of health care information, including financial and patient-level data files.
• Ability to develop complex and customized queries and reports.
• Demonstrated experience and expertise with SAS and/or SPSS programming language required.
• Demonstrated experience using advanced Excel features and techniques required
• Ability to synthesize data and present results effectively to various audiences.
• Ability to perform complex statistical analyses based on the design of study.
• Ability to handle multiple concurrent tasks.
• Ability to maintain confidentiality.
• Strong verbal and written communication skills.
• Ability to work independently and as part of a team.
• Excellent time management skills.
• Physical ability to perform the duties of the position

TO APPLY: Please submit resume to cora.keeney@ubc.ca