Post-doctoral Fellowship in perinatal predictive modeling at McMaster University

Recent new research funds from a Canada Research Chair position have become available for a post-doctoral position in the Department of Obstetrics and Gynecology at McMaster University Health Sciences/Health Research Methods, Evidence, and Impact (formerly Clinical Epidemiology & Biostatistics), to develop and apply novel, advanced analytic methodology to build, validate and apply novel predictive models of complex biological processes to study maternal and neonatal diseases to improve the health of women and infants.

The successful candidate will be co-supervised in a vibrant, collaborative environment by Dr. Sarah McDonald, holder of a prestigious Canada Research Chair, a perinatal clinical epidemiologist and a high risk obstetrician and Dr. Joseph Beyene, an academic biostatistician and methodologist. Opportunities include collaborations with teams in other departments, centres, provinces and internationally.

We are seeking highly motivated applicants who have a Ph.D. in (Bio)Statistics, Computer Science, Clinical Epidemiology, or a related field. Excellent programming (SAS/R) and communication skills are required. The applicant should be enthusiastic about working with real as well as simulated large data sets to tackle the high dimensionality of complex relationships between patient characteristics, biomarkers, & repeated measures to examine maternal and infant outcomes using large perinatal data sets. Experience in obstetrics, neonatology or perinatology would be an asset. Being able to work as part of a team as well as independently are important skills.

The primary responsibilities of this position involve designing and carrying out predictive modeling studies, analyzing data using R or SAS, co-authoring and submitting manuscripts and research grants. Other opportunities will include gaining experience with writing publications and grants and the supervision of students. The position is tailored to the applicant’s career goals.

The appointment will be for 1-3 years dependent on the candidate’s goals, qualifications, fit and productivity. Salary is commensurate with qualifications. McMaster University is recognized and internationally ranked research and educational institution, and the Dept of Clinical Epidemiology & Biostatistics is particularly renowned with a vibrant series of rounds and other educational opportunities.

Interested applicants should send: 1) their curriculum vitae, 2) along with a letter expressing why they are interested in this position, 3) copies of all their transcripts (notarized translated if necessary), 4) for all statistical or epidemiological courses a course description including course duration, 5) copies of three publications on
which they have been an author (first or co-author) as well as a complete list of publications in the cv, 6) the names and contact information for three references, and 7) what website they saw this posting on, by email (please include Predictive Modeling PDF in the Subject) to:

Dr. Sarah McDonald  
Canada Research Chair  
Professor  
Departments of Obstetrics & Gynecology, Radiology, and and Health Research Methods, Evidence, and Impact  
McMaster University, 1280 Main Street West, room 3N52B; Hamilton, Ontario, Canada, L8S 4K1; Email: mcdonals@mcmaster.ca

Applications will continue to be processed until the position is filled. We thank all applicants, but only those selected for an interview will be contacted.