RESEARCH ASSOCIATE IN MATHEMATICAL MODELING

Applications are invited for a Research Associate position within the Division of Mathematical Modeling (DMM) at the University of British Columbia Centre for Disease Control. The DMM supports policymakers by developing and applying advanced analytical and computational tools to study the transmission dynamics of communicable diseases as well as devise and evaluate strategies to control the spread of disease within a population. We are, therefore, interested in candidates with experience in the fields related to the mathematical modeling of infectious disease.

Job description: This grant-funded position will provide the theoretical and computational expertise for the development of epidemiological contact network mathematical models to describe the spread of infectious diseases in small settings such as hospitals and schools. The Research Associate will work in collaboration with epidemiologists, infectious disease specialists, public health officials and mathematical modelers at the British Columbia Centre for Disease Control and several other Canadian public health and medical institutions. He/she will contribute to the analysis of epidemiological data, the development of new mathematical models, and the application of these models to evaluate and design optimal infection control intervention plans. The Research Associate will be expected to prepare and publish research papers in the peer-reviewed literature.

Required Qualifications: Interested individuals with a PhD degree in applied mathematics, statistics or a related discipline along with a strong publication record and excellent academic credentials are encouraged to apply. Prior research experience in one or more of the following areas is required: mathematical modeling of infectious diseases, mathematical modeling of carcinogenesis, and statistical inference of stochastic models. Knowledge of network theory and infectious diseases biology/epidemiology is a must. Knowledge of cancer biology/epidemiology and previous experience developing cancer risk prediction models is highly desirable.

The successful candidate should have strong analytical, computational, statistical and problem solving skills as well as the ability to recognize sensitive and confidential matters and exercise tact, sound judgment and discretion. The candidate must be a self-starter and a team player with the ability and desire to learn quickly and adapt to new technologies. Ability to communicate effectively with persons from other areas of science and health research is a must.

Duration: Initial appointment for 1 year, beginning April 1, 2010 or upon a date to be mutually agreed, with the possibility of renewal for a second year upon satisfactory performance and available funding.

Salary: The salary range for this position will be CAD$60,000 to CAD$65,000 per annum and will commensurate with training and experience. Benefits will be included in compliance with the University of British Columbia regulations.

Application: Inquiries may be sent to Krista English, Program Manager, Krista.English@bccdc.ca. Qualified applicants may apply online http://hr.ubc.ca/careers/faculty_postings.html for posting #6941. Applicants will need to register before they can begin the online application.

UBC hires on the basis of merit and is committed to employment equity. We encourage all qualified applicants to apply; however, Canadians and permanent residents of Canada will be given priority.