



## Postdoctoral Researcher

**Overview:** Applications are invited for a postdoctoral 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 mathematical models to study the immuno-epidemiology of *Chlamydia trachomatis* genital infection in sexual networks, understand the structure of sexual contact networks and the time dependent acquisition of immune responses within an individual host and to evaluate the impact of various intervention strategies on transmission dynamics among sexually active populations. The postdoctoral researcher will work in collaboration with epidemiologists, infectious disease specialists, public health officials and mathematical modelers at the British Columbia Centre for Disease Control. 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 postdoctoral researcher will be expected to prepare and publish research papers in the peer-reviewed literature.

**Required Qualifications:** Interested individuals with a recent PhD degree in mathematical biology/ecology, physics, mathematics, statistics, computer science or a related discipline along with a strong publication record and excellent academic credentials are encouraged to apply. An understanding of the systems biology of the immune system is an asset.

The successful candidate should have strong analytical, computational 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.

**Duration:** Initial appointment for 1 year, beginning September 1, 2010, 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\$50,000 to CAD\$60,000 per annum plus benefits and will be commensurate with training and experience. Benefits will be included in compliance with the University of British Columbia regulations.

**Application:** Please submit a curriculum vitae, research statement (including a brief description of your previous research experience and your long-term career goals) and three letters of recommendation to:

Dr. Babak Pourbohloul  
Director  
Division of Mathematical Modeling  
UBC Centre for Disease Control  
babak.pourbohloul@exchange.ubc.ca

Applications will be reviewed beginning August 1, 2010 and will be accepted until the position is filled.  
Only those candidates considered for interview will be contacted.