Applications are invited for the following full-time position in the Saw Swee Hock School of Public Health:

Post-doctoral Fellow (Biostatistician)

Centre for Infectious Disease Epidemiology and Research (CIDER) – Saw Swee Hock School of Public Health (SSHSPH) at the National University of Singapore (NUS) is recruiting a highly motivated full-time Post-doctoral Fellow in biostatistics.

CIDER is an academic research centre collaborating with the Biodefence centre, Singapore Armed Forces (SAF). Our expertise is in infectious disease surveillance and epidemiological modelling to prevent and control potential infectious disease outbreaks.

The candidate is required for developing improved model in the surveillance of infectious diseases. He/she will have excellent prospects to build upon skills in this unique area of statistical modelling, and have ample opportunities to publish first author papers in statistical journals. She/he would also be able to attend courses to acquire additional critical skills required to undertake this role.

Job Description

1. Undertaking comprehensive literature review on surveillance models for infectious diseases
2. Managing infectious disease datasets
3. Developing proposed model that incorporates both mechanistic and empirical aspects of disease transmission
4. Designing and running simulation studies that revolve around most real-life clinical infectious disease scenarios
5. Presenting results at regular meetings and conferences
6. Preparing and submit manuscripts for publication
7. Maintaining professional development by attending relevant courses and reading up articles, books, etc
8. Actively participating in regular departmental meetings (e.g. CIDER meetings, Quantitative Monthly Forums, etc)
9. Assisting in the preparation of related grant proposals
10. Undertaking any other activities as assigned by the CIDER Director

Requirements/qualifications

- PhD in Statistics/Biostatistics or equivalent
- Proficient in sample size calculation for epidemiological/clinical studies
- A good knowledge of various statistical modelling methods (e.g. generalized linear model, mixed effect model, survival analysis)
- Proficient in coding with R for conducting statistical analysis. Hands on experience in C++ is preferred
- Ability to write up a computer code for a Bayesian model, preferably in JAGS/WinBUGs is a plus
- Capability to design and conduct simulation studies is essential

- Demonstrates ability to communicate well with others (clinicians and statisticians), both verbally and in writing
- Ability to work independently and at the same time, willing to share knowledge and collaborate with others is essential as well
- Publications in peer-reviewed journals will be highly preferred

Interested applicants should send the following documents by email to Ms Chua Hui Lan at ephchl@nus.edu.sg by 31 May 2017:

a. *Cover letter highlighting career goals and relevant experience*
b. *Curriculum Vitae*
c. *Names and contact information of at least two referees*
d. *A completed NUS Personal Data Consent for Job Applicants (form is available at NUS Personal Data Consent for Job Applicants)*
e. *Any other supporting documents*

We regret that only shortlisted candidates will be contacted.