

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

Post-doctoral Research Fellow (Data Analytics) / Data Scientist for Saw Swee Hock School of Public Health

The Saw Swee Hock School of Public Health (SSHSPH) at the National University of Singapore (NUS) is seeking a postdoctoral research fellow to assist in a study on the use of preemptive pharmacogenotyping (PGx) in Singapore. The objective of this study is to identify the optimal patient selection strategy and multiplex gene panel composition for cost-effective use of preemptive PGx. Results will be used to inform policy making, reimbursement decisions and communication strategies on preemptive PGx. Successful candidates will be appointed on a 12-month contract. The specific role of the Data Scientist is to apply data mining, machine learning and text analytics techniques to electronic medical records and develop automated algorithms that can identify adverse drug reactions from clinical notes.

Job scope:

- Develop automated algorithms that can identify adverse drug reactions from clinical notes with high accuracy
- Conduct training on data mining, machine learning and text analytics technique for other research team members without a similar background
- Prepare conference abstracts, manuscripts, presentations, etc.
- Collaborate in an inter-disciplinary team

Requirements:

- Possess a Master or PhD in a relevant field such as computer science, bioinformatics, operations research, biostatistics, etc
- Extensive working experience with text analytics and machine learning software such as R, Apache OpenNLP, Rapidminer, NVivo, Google Cloud Natural Language, etc is essential
- Background in health sciences is a plus
- At least 3 years of relevant working experience in text analytics
- First author publication(s) in reputable international journal(s).

The grade of appointment will be accorded based on candidate's academic qualifications and years of relevant experience.

Applicants should send the following documents by email to Dr WEE Hwee Lin at ephwhl@nus.edu.sg:

- a. Cover letter highlighting career goals and relevant experience*
- b. Curriculum Vitae, containing details of three named referees*
- c. A complete NUS Personal Data Consent for Job Applicants (form is available at [NUS Personal Data Consent for Job Applicants](#))*

Please note that only shortlisted candidates will be contacted.