Assistant Director, Evaluation & Analytics

Policy, Research and Surveillance Division
Advance the transformation of health promotion through the delivery of internationally-recognised and high-performing policies, evidence and intelligence.

Programme Evaluation Department
The Programme Evaluation team aims to advance the transformation of health promotion through the delivery of internationally-recognised and high-performing policies, evidence and intelligence.

Integrate a strategy of ongoing evaluation fully into programme planning and management cycle, to effect a process of monitoring beyond “episodic” to “always-on”. Adopt a systems and multi-disciplinary approach to programme evaluation, leveraging on “new” (e.g. market/industry) data and data collection (e.g. anthropological) methods.

Summary Objective of Role
The job holder will drive and lead programme analytics with a focus on delivering measurable outcomes for programme evaluation and influencing business strategies. This would be done through working as part of dynamic business and marketing teams to come up with well-articulated measurement framework and impact assessment strategy as well as driving integration and cross-analytics of multiple big datasets (e.g. programmatic, surveillance, disease and app-based data).

Responsibilities
• Lead a team to set up and implement analytics to drive programme evaluation to inform HPB’s strategies and facilitate an assessment of the impact of HPB’s work on the nation’s health outcomes
• Drive the application of big data collected from population level programmes to develop new use cases that can help drive HPB’s goal of delivering personalised behavioural nudges across programmes and marketing
• Drive collaborations and partnerships across public and private sector partners to advance and widen health promotion in broader research agenda

Requirements
• Qualifications in data analytics, statistics, public health, epidemiology or related field, or candidates with other disciplines with relevant experience are welcomed to apply
• Minimum 7 years of relevant experience in data analytics, with at least 2 years in supervisory capacity
• Have worked with large data sets including statistical analysis, data visualisation or data mining.
• Working knowledge of forecasting/predictive modelling tools would be a plus
• Proficient in the use of data visualisation tools (e.g. Tableau, Microsoft Power BI), MS Excel (advanced), SPSS, STATS or equivalent analytics tools;
• Strong communication skills with proven track record in leading and collaborating with business stakeholders independently both within and outside of the organisation

Interested applicants, please email your resume to Emmeline Tan (Assistant Director, Workforce Planning & Talent Development) @ emmeline_tan@hpb.gov.sg by 31 July 2019.
Overview of Policy, Research and Surveillance Division
Advance the transformation of health promotion through the delivery of internationally-recognised and high-performing policies, evidence and intelligence.

Overview of Programme Evaluation Department
To advance the transformation of health promotion through the adoption of a systems and multi-disciplinary approach to programme evaluation, leveraging new data sources, data collection methods and advanced data science techniques.

Summary Objective of Role
The job holder will drive and lead programme analytics with a focus on delivering measurable outcomes for programme evaluation and influencing business strategies. This would be done through leveraging advanced analytics and integrating artificial intelligence and machine learning to better predict and deliver behavioural nudges. The job holder will also facilitate the development of a recommendation engine to support new person-centric health promotion strategies.

Responsibilities
1. Set up and implement advanced analytics to drive programme evaluation and deepen understanding of key target groups of the population
   - Develop programme analytics strategy and data collection framework to support programme evaluation and strategy review
   - Design optimal data structures and integrate multiple data sources (e.g. programmatic, surveillance, disease and app-based data) to perform data analytics
   - Propose and leverage “new” (e.g. market/industry) data sources and data collection/analysis methods to deliver more effective programme review and monitoring

2. Lead a cross-functional matrix team to develop and test impact of behavioural nudges/recommendation engine based on advanced analytics such as predictive analytics, artificial intelligence and machine learning
   - Lead and coach a cross-functional matrix team comprising of statisticians, epidemiologists and domain specialists to develop artificial intelligence and machine learning models and algorithms to better predict and test behavioural nudges
   - Support the development of recommendation engine to promote the potentials of new health promotion strategies that can impact population health

3. Drive collaborations and partnerships across public and private sector partners to advance and widen health promotion in broader research agenda
   - Partner research collaborators (e.g. NUS School of Public Health, A-STAR, technology industry players such as Apple & Fitbit) to further HPB’s understanding of key target segments and contribute to the development of innovative technologies and tools to advance preventive health
Requirements

- Qualification or work experience in data science/analytics, statistics, computer science or equivalent
- At least 5 years of experience in a data science or data analytics position
- Proficient in statistical and advanced modelling packages and other advanced analysis tools (e.g. R, Python, SQL). Experience in data management and forecasting and predictive modelling tools would be required.
- Proven track record in leading and collaborating with business stakeholders independently both within and outside of the organisation
- Able to work in a fast-paced matrix environment, overseeing multiple projects at the same time
- Good communication skills and able to communicate and express complex data/concepts in a clear and simple-to-understand manner
- Possess the drive, commitment and perseverance to do well and have strong intellectual curiosity to learn and seek continuous improvements in the work assigned
- Possess strong problem solving and critical thinking skills
- Receptive to new and innovative ways of doing things effectively and efficiently
- Take an interest in healthcare

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