NATIONAL DEPARTMENT OF HEALTH

It is the Department's intension to promote equity (race, gender and disability) through the filing of this post with a candidate whose transfer /promotion / appointment will promote representivity in line with the numeric targets as contained in our Employment Equity plan.

APPLICATIONS: : The Director-General, National Department of Health, Private Bag X399, Pretoria. 0001. Hand delivered application may be submitted at Reception (Brown Application Box), Dr AB Xuma Building, 1112 Voortrekker Rd, Pretoria Townlands 351-JR or should be forwarded to recruitment@health.gov.za quoting the reference number on the subject e-mail.

FOR ATTENTION: : Ms M Shitiba

NOTE: : All short-listed candidates will be subjected to a technical exercise that intends to test relevant technical elements of the job, the logistics of which will be communicated by the Department. Following the interview and technical exercise for SMS posts, the selection panel will recommend candidates to attend a generic managerial competency assessment (in compliance with the DPSA Directive on the implementation of competency-based assessments). The competency assessment will be testing generic managerial competencies using the mandated DPSA SMS competency assessment batteries. Applications should be submitted on the new Z83 form obtainable from any Public Service department and should be accompanied by a CV (previous experience must be comprehensively detailed). The Z83 must be fully completed (all sections), failure to complete or disclose all information will automatically disqualify the applicant. Applicants are not required to submit copies of qualification and other relevant documents on application. Certified copies of qualifications and other relevant documents will be requested prior to final selection phase. Applications should be on one PDF format. Applications received after the closing date and those that do not comply with the requirements will not be considered. It is the applicant's responsibility to have foreign qualifications and national certificates (where applicable) evaluated by the South African Qualification Authority (SAQA). The Department reserves the right not to fill the posts. The successful candidate will be subjected to personnel suitability checks and other vetting procedures. Applicants are respectfully informed that correspondence will be limited to short-listed candidates only. If notification of an interview is not received within three (3) months after the closing date, candidates may regard their application as unsuccessful. The Department will not be liable where applicants use incorrect/no reference number(s) on their applications.

POST : **DEPUTY DIRECTOR: DATA SCIENTIST REF NO: NDOH 22/2024 (X1 POST)**

SALARY : An all-inclusive remuneration package of R849 702 per annum [basic salary consists of 70% or 75% of total package, salary package will be structured according to Middle Management Service guidelines.

CENTRE : Chief-Directorate: Health System Digital Information, Pretoria

REQUIREMENTS : A Bachelor's degree (NQF 7) in Computer Science. Bachelor of Science or Postgraduate (NQF 8) qualification majoring in one or more of the following: Computer Science, Information Systems, Mathematics, Statistics, Demography, Biostatistics, Epidemiology will be an advantage. Geographical Information System as a module as an added advantage. Five (5) years in IT and at least three (3) years data science experience in handling and manipulating large datasets using enterprise database technologies, building SQL-based ETL processes and advanced SQL programming, building web-based reports, preferably using enterprise reporting tools, statistical and data mining techniques: GLM/Regression, Random Forest, Boosting, Trees, text mining, social network analysis, etc., team-based software development and management approaches, business intelligence. Experience in dealing with health-related data and modelling will be advantage. Proven knowledge of

statistics (regression, properties of distributions, statistical tests and proper usage, etc.); machine learning (regression, simulation, scenario analysis, modeling, clustering, decision trees, artificial neural networks) and their real-world advantages/drawbacks, coding languages (C, C++, Java, JavaScript), databases, data mining (GLM/Regression, Random Forest, Boosting, Trees, text mining, social network analysis) and reporting technologies, database, transaction processing, referential integrity. Knowledge of database security administration, user management, IT hardware management data security and data governance as well as being able to understand the Digital Health Policies, National Health Act, POPI Act and National Health Insurance Plan. Good communication (verbal and written), interpersonal, leadership ability, time management, motivational, strong negotiation, mathematical/analytical and logical thinking, customer service, planning, organizing, team management and computer skills (MS Office packages). Ability to conceptualise, design and implement efficient data-driven reports and visualization. A valid driver's license.

DUTIES : Plan, coordinate and execute data science projects activities that develop Digital Health Data Architecture, leverage existing and new data to inform decision-making, analyse data requirements and identify required components/elements to be structured in a multi-relationship environment. Organise different health related datasets so that it can be used to analyse and visualise, review and plan health services and support decision-making within the NHI context. Develop new methods/technologies for solving data use and analytic problems and incorporate into the Business Intelligence (BI) solutions for the NHI Fund. Design, Implementation, and maintenance of database systems which include. Database Tuning, Security and Management, Data Mining and flowcharting, Database Administrative related functions within the scope of the Microsoft SQL server architecture environment. Participate and contribute to Digital Health Governance with a focus on Database and Data Governance and ensuring compliance to relevant legislation such as the National Health Act and POPI Act.

ENQUIRIES : Ms M Wolmarans at Milani.Wolmarans@health.gov.za

CLOSING DATE : 18 June 2024

CLOSING TIME : 12:00 Mid-day

MEDIA : PSVC and NDOH Website