Job description Geographic Information Systems (GIS) Officer

Title	**Geographic Information Systems (GIS) Officer**
Reports to	**Data Manager**
Background and Job Summary	The GIS Officer works at the intersection of data analysis, mapping programming, and cartography. His/her primary duties will include analysing TB spatial data through mapping software and designing digital maps with geographic data and various other data sets from the Data sets captured in the field and DHIS2. He/She will also provide broad data analysis as part of the data analytics team. Accurate mapping of spatial heterogeneity in tuberculosis (TB) cases is critical for achieving high impact control as well as guide resource allocation in most developing countries. GIS Officer will be using spatial statistics and GIS techniques as a preamble to identifying areas with elevated risk for prioritisation of control and intervention measures
Essential Duties and Responsibilities	1. Working with the NTP data manager in setting up data elements and configurations that permit geospatial analytics in DHIS2. 2. Supporting the development of community data capturing systems to have geospatial capabilities. 3. Recommend and support the deployment of appropriate mapping software 4. Coordinate development of training curriculum and manuals for GIS training to lower levels 5. Coordinate GIS support and supervision 6. Support the development mapping applications and tools 7. Analyse spatial data using mapping software. 8. Discover patterns and trends through spatial mapping of data. 9. Design digital maps with geographic data and other data sources. 10. Create "shapefiles" to merge topographical data with external data by layering external data over a topographical map. 11. Produce maps showing the spatial distribution of various kinds of TB cases and another implementation of GIS 12. Identify salient data patterns, perform complex analysis and interpret trends/patterns coming from the data. 13. Produce reports on geographic data utilizing data visualizations 14. Develop innovative and appropriate data visualization methods to convey key trends to a range of audiences from government and donors to health care workers.
Expected outputs/outcomes	• Hotspot mapping and Analysis • Interactive and real-time TB case mapping • A functional Geodatabase • Production of digital and hardcopy maps • Improved targeted screening and resource allocation • Improved Contact tracing and tracking TB spread • Discovering TB patterns and areas of active transmission • Spatial analysis of TB data • Spatial distribution of TB cases across space and time

Qualifications	• Degree in Geography and Environmental Science; Statistics, Geosciences, Geography, Surveying or related field. • An advanced degree in Geosciences, Environmental health and related fields is an added advantage.
Knowledge, Skills and Abilities	• At least 1-year proven working experience in planning, training, surveillance, monitoring and evaluation, and implementation of public health activities related to TB control. • At least 1-year experience in TB-HIV programming • At least 1-year experience in monitoring and evaluation of HIV/AIDS and TB control programs. • Excellent oral and written communication skills (English and Shona or Ndebele). • Ability to network, interact and influence at policy, provincial, district and facility level. • Excellent computer and word processing skills. • Strong analytical and report writing skills. • Experience with both desktop ArcGIS and ArcGIS online • Experience with mapping tools such as QGIS and Carto. • Competences in spatial statistics. • Experience with DHIS2 • Knowledge of database programming languages such as SQL, R or Python. • Experience with GPS measuring tools. • Ability to travel regularly within and outside the country