

DESCRIPTION & REQUIREMENTS OF THE POSTS

1. MANAGER (GEOSPATIAL TECHNOLOGY)

Key Responsibility Areas

- Identify and define appropriate applications of the system and associated GIS products to meet programme objectives and stakeholder requirements.
- Utilise GIS software to create, update, and maintain maps based on collected survey data, ensuring accuracy and consistency in spatial representations.
- Plan and design analytic procedures and methodologies for performing GIS applications, optimising efficiency and effectiveness in data analysis and interpretation.
- Conduct field training sessions related to GIS mapping and survey techniques, and track programme progress to ensure adherence to timelines and quality standards.
- Ensure precision and reliability in spatial data collection.
- Digitise and geo-reference cadastral maps using High-Resolution Satellite Imagery (HRSI) to enhance the accuracy and accessibility of land records.
- Integrate textual and spatial databases to facilitate comprehensive and interconnected data management and analysis.
- Create high-quality cartographic products for publication and presentation, adhering to cartographic principles and design standards.
- Conduct thorough data verification and quality control checks on maps, tables, and reports to ensure consistency, accuracy, and compliance with specifications.
- Supervise and ensure the proper use, care, and operation of GIS equipment.
- Manage GIS data effectively, including data storage, retrieval, manipulation, and analysis, utilizing image processing techniques and 3D mapping capabilities.
- Demonstrate working knowledge of GIS interoperability with various documents, spreadsheets, databases, and image formats to facilitate data exchange and integration.
- Support the implementation of the National Geospatial Policy and assist in framing standards for land parcel data management and dissemination.
- Respond to additional duties and responsibilities as assigned by senior officials.

Work Experience Required

- At least 2 years of experience in managing and execution of GIS-related projects.
- Proficiency in utilising GIS software such as ArcGIS, QGIS and other relevant tools for spatial data processing, mapping and database management.

Educational Qualifications Required

- Bachelor's degree in Engineering/ Technology from a recognised University or Institute in a relevant field such as Civil Engineering, Computer Science, Geomatics Engineering, or related disciplines.
- GATE qualified and certification in GIS/ Data analysis related courses with knowledge of ArcGIS/ QGIS, and other software related to GIS data processing and management is desirable.

2. PROGRAMMER (MIS & GIS DEVELOPER)

Key Responsibility Areas

- Design, develop and implement IT solutions for NAKSHA, including defining use cases, preparing wireframes and leveraging open-source technologies to meet program requirements.
- Create and maintain Management Information Systems (MIS) and Geographic Information Systems (GIS) applications tailored to the needs of land records management.
- Assist in conducting User Acceptance Testing (UAT) of IT solutions, collaborating with end-users and stakeholders to identify issues, gather feedback and ensure that systems meet functional and usability requirements prior to deployment.
- Explore, evaluate and integrate open-source technologies and tools into the development process to optimise cost-effectiveness, interoperability and scalability of IT solutions within the programme.
- Document IT solutions, processes and procedures effectively, and provide training and support to end-users and stakeholders to facilitate smooth adoption and utilisation of developed applications.
- Respond to additional duties and responsibilities as assigned by senior officials.

Work Experience Required

- Minimum of 2 years experience in database administration, encompassing database design, implementation, optimisation and maintenance.
- Proficiency in GIS-based software tool development, with a track record of designing and deploying solutions to meet project requirements.

Educational Qualifications Required

- Bachelor's degree in Engineering or Science, preferably in Computer Science or Information Technology.

3. GIS TECHNICAL EXPERT

Key Responsibility Areas

- Utilise geo-informatics tools and techniques to understand and interpret trends in spatial data relevant to NAKSHA.
- Collaborate with stakeholders to identify and assess potential issues or challenges in GIS-related areas and develop effective solutions.
- Provide expertise and guidance on GIS-related matters to ensure compliance with standards and regulations, maintaining high-quality deliverables.
- Prepare reports and presentations on GIS trends, progress and solutions for stakeholders, ensuring accuracy and clarity in documentation.
- Respond to additional duties and responsibilities as assigned by senior officials

Work Experience Required

- A minimum of 2 years of experience in the development of GIS-based software tools is preferred.
- Demonstrated proficiency in designing, developing and implementing GIS solutions to meet project requirements and objectives.

Educational Qualifications Required

- Bachelor's degree in Engineering or Master's in Computer Applications/ Geo-informatics or relevant fields.