

The Directorate of Urban Land Transport (DULT) has been set up by Government of Karnataka under administrative control of Urban Development Department with objective to coordinate planning and implementation of Urban Transport projects and programs. The DULT is general responsible for overseeing all the urban land transport in urban areas of Karnataka.

DULT is hiring the technical staff for the duration of two (2) years. The vacancies are purely on a contract basis and does not bestow any right for permanent appointment. The vacancies details are as mentioned below:

## **(1) GIS Analyst**

Looking for experienced GIS Analysts that understand the geospatial domain and are motivated to combine their knowledge and experience in building next generation geospatial databases and services.

### **1.1 Educational Qualification**

Master's degree in GIS or related disciplines (Geography, GIS, Cartography, Forestry etc)

### **1.2 Vacancy: 01.**

**1.3 Remuneration:** Consolidated pay of 60,000 to 85,000 per month.

### **1.4 Experience**

5+ years hands-on experience designing and creating Maps and Enterprise Geo-databases in GIS platform, preferably ArcGIS Desktop.

**1.5 Requirements:** The right candidate for a GIS Analyst position must have:

- a) Solid knowledge of computer based technologies, basic Geography and Cartography.
- b) Strong conceptual foundation in GIS and analytical techniques, including computerized mapping and digital data conversion, manipulation and analysis.
- c) Knowledge and experience of GIS tools and applications such as ArcGIS (all products), QGIS, and Geo-Server and willingness to learn new GIS tools and applications
- d) Strong relational and GIS database design, administration and management principles, methods and techniques, including quality control methods and practices.
- e) Understanding of principles and practices of GIS analysis and design and knowledge of Geo-Processing tools and Model Builder.
- f) Ability to identify users' GIS requirements, technical issues and training needs, to analyze current business processes and recommends best practice solutions
- g) ability to think and solve problems
- h) Good verbal and written communication skills in English

- i) Be able to create well-written and detailed reports and solve GIS related technical problems
- j) Motivation to be a self-directed team player who thrives in a frequently changing environment
- k) Genuine curiosity about all things GIS and Location

### **1.5 Responsibilities**

As GIS Analyst, you will be responsible for:

- a) Planning, organizing, integrating, monitoring, and maintaining ArcGIS or open source GIS setups and its related applications
- b) Understanding, analyzing and defining GIS data requirements and working with the rest of the team to design and create Geo-Databases.
- c) Analyzing data requirements and creating Geo-Processing Models, evaluating alternatives and recommending solutions within established guidelines.
- d) Performing complex GIS data editing, maintenance, analysis, extraction and generation assignments
- e) Performing GIS data research based on guidelines provided
- f) Preparing, planning, maintaining and updating a variety of maps, diagrams and other graphic representations displaying layers and attribute data from databases, using cartographic techniques to represent spatial data;
- g) Developing and maintains data layers, using GIS tools, and relational databases detailed spatial analysis of data as and when required in software selection and implementation teams, including software evaluation, requirements gathering, workflow analysis and system implementation, testing and training.
- h) Designing, implementing, and testing configuration changes in ArcGIS and open source GIS systems as per business requirements
- i) Establishing and maintaining effective working relationships with those encountered in the course of work.
- j) Developing training materials and manuals and coordinating and conducting GIS raining classes for staff from other Agencies.

## (2) Business Intelligence Analyst (Data Analyst)

Looking for a Data Analyst that works with multiple IT teams to generate, maintain, and enhance Geospatial analysis reports and be a hands on report developer. The

### 2.1 Experience

5+ years' hands-on experience using Business Intelligence tools with basic experience using GIS applications would be a plus.

### 2.2 Vacancy: 01.

2.3 **Remuneration:** Consolidated pay of 60,000 to 85,000 per month.

### 2.4 Educational Qualification

Bachelor's Degree in Information Technology/Computer science or related disciplines and 1-3 years of experience using Business Intelligence tools.

### 2.5 Requirements:

- a) 5+ years' experience in systems design, analysis, and programming experience with a combination of experience in relational database, client-server concepts, Database clients, BI tools(Oracle Discoverer preferred) and OLAP development.
- b) Strong understanding of all phases of the application development lifecycle and project management disciplines.
- c) Ability to work on multiple projects with competing deadlines while paying strong attention to detail and analytics.
- d) Excellent organization, teamwork, problem solving, and communication (verbal and written) skills.
- e) Ability to work well with people in all levels of the organization.

### 2.6 Responsibilities

- a) Interacting with the users from other Agencies to gather geospatial and non-geospatial data, and understand their functioning.
- b) Assisting the team in designing reports for the project, including ETL processing, metadata maintenance, and data validation
- c) Determining requirements of new fields based on understanding the needs of various agencies.

- d) Planning, designing (data mapping), and creating reports for business or decision maker users based on technical specifications.
- e) Provide user assistance and direction for ad hoc data reporting. Working with users and other IT members on a routine basis to troubleshoot reported problems pertaining to the reports and the reporting database environment.
- f) Collaborating with business users from various Agencies. \
- g) Analyzing business processes and requirements of various Agencies
- h) Creating and maintaining documentation including requirements, design and user manuals
- i) Identifying opportunities to improve processes of generating reports and strategies with new technology solutions available in the market
- j) Testing, evaluating, and implementing new or upgraded Business Analysis software.
- k) Assisting with training users of other Agencies with the use of tools.
- l) Must have proven ability for working on multiple projects with competing deadlines requiring strong attention to detail and analytics.

### (3) Database Administrator

3.1 **Experience:** 5+ years hands-on experience designing and managing Relational Database Management Systems (RDBMSs).

3.2 **Vacancy: 01.**

3.3 **Remuneration:** Consolidated pay of 60,000 to 85,000 per month.

#### 3.4 Educational Qualification

Bachelor's degree in Information Technology/Information Systems/Computer Science or related disciplines

#### 3.5 Requirements

- a) Five+ years' experience in database design and analysis on relational databases, client-server concepts, and database clients.
- b) Ability to understand and ability to manage performance, integrity and security of databases in addition to planning and development of the database, as well as in troubleshooting any issues on behalf of the users.
- c) Ability to work on multiple projects with competing deadlines while paying strong attention to detail and analytics.
- d) You must ensure that data remains consistent across the database, is clearly defined, and users are able to access data concurrently, in a form that suits their needs
- e) Excellent organization, teamwork, problem solving, and communication (verbal and written) skills.
- f) Ability to work well with people in all levels of the organization.

#### 3.6 Responsibilities

- a) Establish the needs of users and monitor user access and security
- b) Monitor performance and manage parameters in order to provide fast responses to front-end users
- c) Map out the conceptual design for a planned database
- d) Consider both back-end organization of data and front-end accessibility for end-users
- e) Refine the logical design so that it can be translated into a specific data model
- f) Refining the physical design to meet system storage requirements
- g) Installing and testing new versions of the database management system (DBMS)

- h) Maintaining data standards, including adherence to the Data Protection Act
- i) Writing database documentation, including data standards, procedures and definitions for the data dictionary (metadata)
- j) Controlling access permissions and privileges
- k) Developing, managing and testing back-up and recovery plans<sup>12</sup>. Ensuring that storage and archiving procedures are functioning correctly
- l) Carrying out capacity planning
- m) Working closely with IT project managers, GIS Analysts, Business Analysts and programmers
- n) Communicating regularly with technical, applications and operational staff to ensure database integrity and security
- o) Manage the Security and Disaster Recovery aspects of a database.