



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

INFORMATION TECHNOLOGY GIS ANALYST III

Group-Section: Business Technology Group	FLSA Status: Non-Exempt Bargaining Unit: AFSCME	Salary Grade: 47 Job #: YA35
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JOB SUMMARY

This is the journey level position performing Information Technology GIS Analyst III job duties.

DISTINGUISHING CHARACTERISTICS

Positions at this level are fully competent and use judgment in interpreting and adapting guidelines such as policies, regulations, precedents, and work directions for application to specific cases or problems. The decision regarding what needs to be done depends upon the analysis of the subject, phase, or issues involved in each assignment, and the chosen course of action may have to be selected from many alternatives. The work involves treating a variety of conventional problems, questions, or situations in conformance with established criteria.

OVERSIGHT

Supervision Received: The supervisor makes assignments by defining objectives, priorities, and deadlines; and assists employee with unusual situations that do not have clear precedents. The employee plans and carries out the successive steps and handles problems and deviations in the work assignment in accordance with instructions, policies, previous training, or accepted practices in the occupation. Completed work is usually evaluated for technical soundness, appropriateness, and conformity to policy and requirements. The methods used in arriving at the end results are not usually reviewed in detail.

Supervision Given: May act as a lead. May coordinate and review work assignments of employees performing the same general work as the lead on a day-to-day basis. Responsibilities may involve solving problems and providing instructions on work procedures.

JOB DUTIES

1. Performs configuration and customization of Commercial Off-the-Shelf Geographic Information Systems packages and integration with other systems.
2. Evaluates and tests system upgrades and installations.
3. Researches and recommends solutions for systematic problems and for improvements in functionality. Monitors systems availability, functionality and integrity. Provides support or escalates unresolved technical issues.
4. May participate on a project team.
5. Develops custom Geographic Information System applications using standard commercial off-the-shelf software and development tools. May include integration with an enterprise business system.
6. Conducts spatial analysis and produces Geographic Information System maps and reports.

7. Performs Geographic Information System data processing including updating multiple data layers involving multiple data relationships and integration; may require the use of custom data processing tools and scripts.
8. Participates in professional group meetings; stays abreast of new trends and innovations in their area of responsibility.
9. Performs other related Information Technology GIS Analyst job duties as required.

EMPLOYMENT STANDARDS

MINIMUM QUALIFICATIONS

Education and Experience: Bachelor's degree from an accredited college or university in a related field and four years of relevant experience; or Master's degree from an accredited college or university in a related field and two years of relevant experience.

Required Knowledge of: Geographic Information Systems, Geographic concepts, Cartography, Coordinate Systems, Map Projections, Spatial Analysis, Topology, Spatial Data Types, Spatial Data Conversion, GIS Applications, GIS Programming, GIS Web Services, Metadata concepts, color printers and large format plotters, relational databases, query and report writing tools; methods and techniques to analyze, design, develop, test and implement applications; object oriented programming concepts; Information Technology methods and procedures, including systems development life cycle; and current office technology and equipment.

Required Skills and Abilities to: Perform GIS Analysis and Mapping; use GIS applications; use and maintain large format color plotters; perform GIS Data processing, conversions, projections, and digitizing; create and maintain GIS web services; provide routine technical system support; diagnose and resolve GIS related problems; configure and customize Commercial Off-the-Shelf Geographic Information Systems packages and integrate with other systems; provide technical system support; diagnose and resolve GIS related problems; analyze requirements, design, test and implement GIS system applications; provide training; plan and perform a variety of assignments to meet business objectives under established guidelines; use independent judgment and exercise discretion; problem solve; prioritize and multi-task; communicate clearly and concisely, both verbally and in writing; establish and maintain effective working relationships with those contacted in the course of work; work independently and in a team environment; and operate current office equipment including computers and supporting applications.

CERTIFICATIONS, LICENSES, AND REGISTRATION REQUIREMENTS

Employees in this position may be required to obtain and maintain the following certifications, licensing and registrations:

Certificates

- None

Licenses

- Valid California Class C Driver License that allows you to drive in the course of your employment

Registrations

- None

Job Title: Information Technology GIS Analyst III

Job Code: YA35

Adopted: 03/11/13

Revised:

Supercedes:

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PHYSICAL DEMANDS, WORK ENVIRONMENT, AND VISION REQUIREMENTS

The physical demands and work environment characteristics described here are representative of those that must be met or may be encountered by an employee to successfully perform the job duties of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the job duties.

Physical Demands: The work is sedentary. Typically, the employee may sit comfortably to do the work. However, there may be some walking; standing; bending; carrying of light items such as paper, books, or small parts; driving an automobile, etc. No special physical demands are required to perform the work.

Work Environment: The work environment involves everyday risks or discomforts that require normal safety precautions typical of such places as offices, meeting and training rooms, libraries, and residences or commercial vehicles, e.g., use of safe work practices with office equipment, avoidance of trips and falls, observance of fire regulations and traffic signals, etc. The work area is adequately lighted, heated, and ventilated.

Vision Requirements: No special vision requirements.