



DATABASE PROGRAMMER ANALYST

SALARY GRADE: [C1-70](#)

DEFINITION:

Under the direction of an assigned supervisor, develop and modify moderately complex applications in a highly developed relational database, data warehouse, and networked environment; perform programming duties and maintain existing applications and systems. Provide technical, procedural and process support for assigned functional area (i.e. finance, human resources, student and financial aid); formulate and define system scope and objectives in accordance with District policies, practices and procedures; and perform other related work as assigned.

DISTINGUISHING CHARACTERISTICS:

The Database Programmer Analyst serves as a project leader, working with vendors and end users, and coordinating work with other technical staff. Its level of independent judgment, complexity and handling of advanced level projects distinguish this class.

EXAMPLE OF DUTIES AND RESPONSIBILITIES:

Depending upon assignment, duties may include, but are not limited to, the following:

1. Serve as a technical lead in assuring optimum application configuration and migration of existing database, data warehouse, and interactive web-based applications; design custom configurations as necessary.
2. Work with technical staff and end users to analyze and design database, data warehouse, and applications system solutions.
3. Prepare detailed specifications and documentation to design, code, test, and debug programs to test business and functional processes.
4. Develop and implement requested/required applications; perform complex configuration, modification, testing and implementation of vendor software.
5. Participate in the analysis, diagnosis, correction and maintenance of complex problems with existing computer applications, database and data warehouse; troubleshoot problems with hardware, software and networks and assist in resolutions;
6. Analyze vendor solutions and estimate time and resources needed and clarify objectives to be accomplished.
7. Use advanced online tools, assigned languages and utilities to write and modify applications, programs, systems, and databases in order to meet design specifications.
8. Assist in the research of available technologies and evaluation of software for the current application environment; recommend solutions.
9. Plan, coordinate, and participate with other personnel through all areas of the development life cycle; produce collateral deliverables to include programs, scripts, documentation and memos that pertain to the projects; provide work direction to assigned programming staff.
10. Prepare project reports on applications, database and document control methods; provide any necessary information to other programming staff to produce various systems and program documentation and procedures.

11. Remain abreast of current database systems technologies related to applications administration, SQL, etc.; maintain current knowledge of technological advances in the field.
12. Train and provide work direction to assigned personnel.
13. Attend a variety of meetings as assigned.
14. Perform related duties as assigned.

EMPLOYMENT STANDARDS:

Knowledge of:

1. Software configuration management and discipline and system change management processes.
2. Business intelligence tools such as ODS (Operational Data Store), EDW (Enterprise Data Warehouse) and reporting tools such as ARGOS.
3. Project coordination and planning.
4. Database design in one or more of the following environments: Oracle, Microsoft SQL Server, MYSQL and Access.
5. Modern web-programming languages, environments and concepts to include but not limited to, several of the following: HTML5, Java, Javascript/jQuery, ColdFusion, Perl, PHP, AJAX, CSS and XML.
6. Computer equipment capacity and limitations, operating time, form of desired results.
7. Integration of enterprise system components.
8. Security measures as they apply to a database environment.
9. UNIX, Windows, Macintosh server operating systems and related software applications.

Ability to:

1. Demonstrate understanding of, sensitivity to, and respect for the diverse academic, socio-economic, ethnic, religious, and cultural backgrounds, disability, and sexual orientation of community college students, faculty and staff.
2. Design, develop, and maintain applications using various development toolsets.
3. Develop test scripts that allow both functional and technical team participation.
4. Regularly report status and raise issues/risks as appropriate.
5. Develop prototypes/proofs of concepts to validate key project assumptions.
6. Manage and troubleshoot errors; diagnose and resolve problems.
7. Maintain current knowledge of technological advances in the field.
8. Communicate effective both orally and in writing.
9. Maintain records and prepare reports.
10. Plan and organize work.
11. Establish and maintain cooperative and effective working relationships with others.
12. Collaborate with team members and operational groups to identify and prioritize work.
13. Work independently with little direction.

Education and Experience

Any combination equivalent to:

1. Bachelor's degree in computer science, information systems, or a related field.
2. Three (3) years of experience in web/applications/database programming.

License or Certification

Possession of a valid class C California driver's license.

WORKING CONDITIONS:

Environment:

1. Office environment.
2. May include travel to conduct work.

Physical Abilities:

1. Hearing and speaking to exchange information in person or on the telephone.
2. Dexterity of hands to perform the tasks required of the position.
3. Sight to read materials.
4. Regularly stand, walk, and sit for extended periods of time.
5. Ability to climb, stoop, kneel, reach, push, pull, grasp, and perform repetitive motions.
6. Lift moderate to heavy objects up to 60 lbs.

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