SENIOR APPLICATIONS DEVELOPER

Position Summary

This position is the lead developer for district-wide information systems such as a student information system and data warehouse. Responsible for a detailed working knowledge of relational databases; the loading and extract of data in and out of the databases; monitoring of data integrity and security; interface of data with other related systems; development of complex reporting; management of user accounts; organization of access privileges to information structures. This position maintains regular contact with principals, other departments and staff.

Supervisory Relationship

The position reports directly to the Information Services Manager for general direction and guidance. The position may have lead or supervisory responsibility over others but primarily provides technical guidance to other developers and users. This position may also provide leadership to other programmer analysts assigned to specific projects or components including task definition, scheduling, and time management.

Essential Functions

1. Responsible for system design and information requirements for new systems and leadership in their development, implementation, and maintenance.
2. Create new screens and reports within the student information system using appropriate development tools.
3. Act as the district expert and resource on relational databases and tools to access them, primarily using Structured Query Language (SQL) and database procedures.
4. Interface regularly with other departments and organizational entities on a variety of information system projects.
5. Respond to information requests for ad hoc data reporting by designing custom database queries and formatting reports. Advise and assist users in designing queries to best suit their needs.
6. Manage installation, implementation, and conversion of assigned major applications software packages purchased by the district in a constantly changing and complex hardware/software environment. Ensure project integrity and completion on schedule by developing and controlling project timelines throughout the life cycle of the project, and by assuming continuous contact and liaison with administrators, vendors, users and CIS staff.
7. Coordinate efforts of other programmer analysts involved in various aspects of an information processing project or systems to insure proper integration and interdependencies.
8. Establish and manage meetings with administrative and user personnel to determine information system requirements, analyze the types of computing solutions, research availability of applications or software tools, and define system proposals which respond to user needs.
9. Guide the development of detailed system design for new applications, establish the priority, work methods, and projected completion dates for various milestone activities.

Day-to-day responsibilities include: program coding, compilation, error correction, system testing, and design of documentation, user training and programming integration.

10. Responsible for development and control of tasks for project implementation including: database conversion, new system process identification, parallel processing requirements, forms development, and implementation processes.
11. Assist in interviewing and recommendations of new programming hires.
12. Coordinate and consolidate team recommendations on software acquisition and operational efficiencies.
13. Create and maintain easy to understand and detailed process, procedural, and technical documentation for district and departmental use.
14. As soon as practicable, responds to requests for information or assistance. Interact with staff in a professional and positive manner.
15. Assist users with high-level, difficult or advanced troubleshooting of applications, browsers, plug-ins, and other related system software over the phone or in person. Minor troubleshooting of hardware as needed.
16. Accurately track billable time on multiple projects simultaneously.
17. Implement board, district, and departmental goals, policies, and values into everyday work.
18. Maintains regular and prompt attendance.
19. Performs other related duties as assigned.

Required Knowledge, Skills and Abilities

1. Indepth knowledge and experience with relational databases.
2. Working knowledge of the Structured Query Language with the ability to write complex queries to meet the needs of the district or other users.
3. Working knowledge of the Java language.
4. Working knowledge of Microsoft development environment (e.g., SQL, Visual Studio, SSIS, SSMS).
5. Working knowledge of district and school environments.
6. Strong time management skills. Ability to multitask among several projects to keep them all moving forward.
7. Ability to quickly learn new programming languages as needed to meet the needs of the district.
8. Ability to communicate effectively both orally and in writing to a diverse population of users and stakeholders.
9. Ability to work in a team environment with other developers, trainers and support staff.
10. Ability to work with other developers in other departments to interface data needs.
11. Ability to take verbal direction and work independently on a project to meet deadlines.
12. Ability to direct all aspects of a development project from start to finish.
13. Ability to effectively support application users via phone or email.
14. Ability to document effectively so other developers can understand work performed.
15. Ability to represent the district and the department in a positive manner.
16. Ability to effectively understand and meet the needs of a diverse user community.

Minimum Qualifications

- Any combination of experience and training that would likely provide the required knowledge and skill may be considered qualifying. A typical way to obtain the required knowledge and skill would be:

<u>Education</u>

- The education training and experience for the Senior Applications Developer classification is typically obtained through the completion of an Associate's Degree in Information Technology, Computer Science, or a closely related field.

<u>Experience</u>

- Three (3) years of experience providing application development work in support of Synergy™ Student Information Systems, including implementing data solutions related to data warehousing, validation, access, security and integrity of student information, troubleshooting and resolving complex issues, developing sophisticated multi-level tables, and developing and presenting training and training manuals to users on systems functionality, or three (3) years of experience as an Applications Developer with Eugene Public Schools is required. Additional directly related, verifiable work experience may substitute for the Associate's degree on a year-for-year basis.

<u>Preferred Qualifications:</u>

- Advanced degree in computer science, information systems, or closely related field.
- Experience in an educational environment, especially K-12.
- Experience with a student information system and a data warehouse - especially Synergy SIS and Hoonuit data warehouse.

Work Environment

Work is performed in the central Technology office.

ADDITIONAL INFORMATION	
Employee Unit	4J MAPS Association
Pay Grade	Grade 6 - 12 Month Calendar
Developed by	Karen M. Hardin, Director of Human Resources
Approved by	Cydney Vandercar, Superintendent
Last Revised	October 21, 2021