RIVERSIDE UNIFIED SCHOOL DISTRICT

CLASS TITLE: **SOFTWARE ENGINEER**

WORK YEAR: **12 Months**

VACATION: **27 Days**

SALARY: **Range 7**

REPORTS TO: **Manager of Systems**

BASIC FUNCTION
The Software Engineer is responsible for the design of business and student information systems. This position is charged with the design, development and documentation of computer programs and interfaces used in the delivery of these systems. Except during periods of illness and personal leave the individual is on call and responds to problems 24 hours a day, seven days a week.

REPRESENTATIVE DUTIES:
Designs, develops and maintains databases and software applications.

Design and maintenance of district Web sites. Establish Web publishing guidelines and tools.

Applies independent judgment, discretion, and analysis in coordinating the implementation and maintenance of information systems for business and student information needs.

Defines and develops practical information system documentation utilizing pseudo-code, flowcharts, block diagrams, process charts, and layouts for solutions to business and student information system needs.

Establishes and publishes new programming techniques, methods, procedures, and standards working with basic and advanced applications system design techniques and methodologies.

Communicates and coordinates with users during the various phases of testing and implementation.

Maintains awareness of state-of-the-art development tools, programming techniques, problem solving techniques and computing equipment.

Participates in end user consulting including defining system requirements, detailed system design and development of software and database solutions.

Establishes programming techniques and procedures for working within the District's hardware and software architectures.

Oversees all aspects of end user consulting, systems analysis, general systems design, and detail systems design.

Learns user functions, organization and role in the District to the extent required.

Provides input to and review of NIS technology policies as they relate to issues of data architecture and data security.

Assists in the resolution of application and system software problems impacting client server, production systems, and networks, as required.

Informs senior management of potential problems before they occur and communicates possible solutions.

Fulfills departmental requirements in terms of providing work coverage hours and administrative notification during periods of personal illness, vacation or education.

Assists in the hiring and review of NIS staff as requested.

Performs all responsibilities within the guidelines of district policies, regulations, and procedures.

Performs other related duties as assigned.

KNOWLEDGE AND ABILITIES:
KNOWLEDGE OF:
Software development methodologies.
Database administration and development.
Software development tools, including latest Visual Studio.
Software performance tuning.
Web design methodologies

ABILITY TO:
Design, develop and maintain databases and software applications.
Design and maintain district Web sites.
Analyze WEB and client server technologies.
Review software and programming design standards
Establish and meet schedules and timelines on assigned projects.
Read, analyze, and interpret general business periodicals, professional journals, technical procedures, or governmental regulations.
Respond to inquiries or complaints from customers, regulatory agencies, or members of the business community.

Effectively present information and respond to questions from groups of managers, clients, customers and the general public.
Interpret a variety of instructions furnished in written, oral, or diagram form.

EDUCATION AND EXPERIENCE:
Bachelor's degree (B.A., B.S.) from a four-year college or university and five years related experience, or equivalent combination of education and experience.

Requires: 5 years programming experience; 4 years web development, including CSS and scripting; 3 years database development

Proficient in: Object oriented design and development; Database design and development, including stored procedures and custom functions VB, NET, ASP.NET, HTML, DHTML, AJAX, CSS, JavaScript, Macromedia FlashMX, SQl, sqL Server, Reporting Services, Frontpage, IIS Server, Web Security

LICENSES AND OTHER REQUIREMENTS:
Valid California driver's license.

WORKING CONDITIONS:
Environment:
Indoors with some travel to other District sites.
Must provide own transportation to conduct work.
Physical Abilities:
Seeing to perform activities.
Hearing and speaking to exchange information.
Lifting to move computer equipment.
Dexterity of hands and fingers to operate a computer keyboard.