WEB PROGRAMMER/DEVELOPER

DEFINITION

Under general supervision provides a variety of web and client/server development and administration services. Defines technical designs and functional specifications for the full range of County web systems and applications. Utilizes current Web technology techniques and object-oriented design concepts. Makes recommendations for improvements in technology, processes, and methodologies, and performs related work as required.

DISTINGUISHING CHARACTERISTICS

This position is distinguished by the capability to develop complex databases or complex web applications such as web pages tied to a database, and by the requirement to work independently with responsibility and expertise in assessing needs and project planning. Individuals at this level may also act as administrators of various web based software.

REPORTS TO

Director of Information Technology or his/her designee

CLASSIFICATIONS DIRECTLY SUPERVISED

May provide direction to other IT classifications assigned to a specific Web based project.

EXAMPLES OF DUTIES:

Provides technical design and functional specifications for business applications, identifies user needs, analyzes options and alternatives, and evaluates functionality and integrity of applications; designs, develops and implements high level methodologies, relational database systems, and other capabilities provided by client/server architecture; utilizes various diagnostic and systems architectural tools to determine requirements, and design formal solutions in response to user department requirements/needs; may assist in the preparation of project plans and resource projections for all activities performed within the framework of a given project (including project scope and work plans); prepares status reports and conducts meetings reflecting project progress and targeted needs; recommends modifications to development plans as requirements/needs deem appropriate; makes presentations or conduct training on new or changed systems for both users and departmental employees; manages the day-to-day maintenance of the County Intranet and Internet Web sites; creates and maintains static web pages on both Intranet and Internet sites; enhances, maintains and supports existing interactive web applications; tests own applications and those of other team members; provides direction to other IT classifications assigned to specific Web based projects; creates artwork/page layout; creates and manipulate graphics in graphics software; researches and tracks technical trends and products in web technology; develops forms to interact with current County E-mail system; continues self-education on those products

supported; supports current IT group standards; contributes to Web marketing efforts, including authoring articles, creating flyers, etc.; and performs other duties as assigned.

TYPICAL PHYSICAL REQUIREMENTS

Sit for extended periods; frequently stand, walk, stoop, kneel, and crouch; physical ability to lift and carry objects weighing up to 50 pounds; normal manual dexterity and eye-hand coordination; corrected hearing and vision to normal range; verbal communication; use of office equipment including computers, telephones, calculators, copiers, and FAX.

TYPICAL WORKING CONDITIONS

Work is performed in an office; occasionally works outside; exposure to electrical energy and dust; continuous contact with staff and the public. May work evenings and weekends when necessary.

DESIRABLE QUALIFICATIONS

Knowledge of:

- Data modeling
- Relational Database Design
- Use of Structured Methodology
- Software development lifecycle
- Database development tools
- Server-Side Scripting such as Coldfusion, PHP, ASP
- Programming, including database integration
- Web development from basic HTML through advanced technologies
- Browsers and browser level incompatibility issues
- Principles of good web page design
- Web site design
- Accessibility design standards such as Section 508 and the W3C's WCAG
- Design constraints of the Web (browser differences, palette issues, and file sizes).
- Various Web technologies in current use
- Principles of E-commerce
- Source code control – "versioning control"
- Web server technology
- Web security
- Web statistics software
- Research, design, development, and programming methods.

Ability to:
- Demonstrate Initiative
- Be creative and innovative, and implement sensible design
- Solve problems and resolve conflicts effectively

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- Analyze and define complex program structures
- Organize work space and activities
- Use a digital camera and scanner
- Make presentations and perform training on developed applications
- Work with limited supervision on small projects in a team-oriented environment
- Adapt to change positively and effectively
- Communicate effectively in oral and written format
- Translate business requirements and design concepts into intuitive Web designs and effective online projects.
- Explain and discuss complex analysis and programming issues in a manner that can be understood by non-technical persons.
- Provide instruction to County staff in the use of the content management system.

Training and Experience: Any combination of training and experience which would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the required knowledge and abilities would be:

Two (2) year's experience in Web/Client Server development in an environment that uses developmental tools, multiple languages, and varied technologies or any equivalent combination of education and experience that satisfies the requirements of the job.

Special Requirements: Possession of a valid and current California Driver's License issued by the Department of Motor Vehicles.

Independent travel may be required. Incumbent may be required to be on-call 24 hours per day to respond to emergency situations. Candidates for positions in the job class will be required to pass a background investigation in accordance with applicable law, regulations, and/or policy.