

Department: Information Systems  
Classification: Competitive  
Grade: 11 M/C

SPEC DISK B6  
DOCUMENT 57

### **SYSTEMS PROGRAMMER / WEB DEVELOPER**

This is a professional level technical position responsible for generating and maintaining computer systems, programs, systems design and other software required by a computer system and its user agencies. The work includes the development of web applications for intranet and internet using back-end relational databases, systems productivity tools, documentation approaches and programming efficiency, and the preparation of recommendations for present and future departmental requirements. The position is distinguished from Senior Computer Programmer/Analyst by the complexity of assignments and the responsibility for web design and implementation. Work is performed under the general supervision of the Information Systems Director and/or the Deputy Information Systems Director. Does related work as required.

#### **TYPICAL WORK ACTIVITIES:**

Designs, programs, implements, manipulates and integrates Website pages, multi-media and graphics that are visually compelling, and technically efficient;  
Meets with customers to determine their Website needs and analyzes requests;  
Reviews project schedules with department personnel to ensure time frames are appropriate and can be met;  
Responds to technical issues of server architecture, security, statistics reporting, site administration, and infrastructure issues;  
Evaluates and recommends new hardware in conjunction with the administration of Internet and Intranet Web solutions;  
Designs and constructs back-end databases and oversees and coordinates technical issues involving back-end databases;  
Confers with supervisors and officials to ascertain the nature of projects, the form of source information and required results;  
Creates web services for web or client applications;  
Creates and maintains web based stand alone and networked client applications for servers, desktops and mobile devices;  
Instructs other developers in web application design and programming, and assists other in debugging applications and computer systems.  
Creates user and training documentation;

#### **FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:**

Working knowledge of relational database design and Structured Query Language; Working knowledge of the use and operation of computers and related peripheral equipment; Working knowledge of basic Javascript, search engines and Web management tools; Good knowledge of

systems analysis, applicable to Web programming; Working knowledge of HTML and Web utilities (i.e. Web browsers, FTP, media players); Working knowledge of client and server operating systems, including intranets and security; Skill in Web authoring; Strong analytical and diagnostic skills; Ability to understand and follow oral and written instructions; Ability to establish and maintain working relationships with clients and departmental personnel; Creativity;

**PROMOTION:** Four years permanent status as a Senior Computer Programmer/Analyst working within the Information Systems Department.

**MINIMUM QUALIFICATIONS:**

A) Graduation from a regionally accredited or New York State registered college or university with a Masters Degree, in the fields of computer science, computer technology, data processing or a closely related field AND two (2) years of experience in the authoring of Website pages (i.e. designing, creating, implementing, manipulating and integrating Website pages and graphics; OR

B) Graduation from a regionally accredited or New York State registered college with an Bachelors Degree, in the fields of computer science, computer technology, data processing or a closely related field, AND three (3) years of experience as outlined in A) above; OR

C) Graduation from high school or possession of a high school equivalency diploma AND seven (7) years of experience in programming or data communications, systems programming and web authoring experience; OR

D) An equivalent combination of training and experience, as defined by the limits of A), B), and C) above.

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