

LEAD DEVELOPER **GIS/Applications Division**

DEFINITION

Under limited direction, to serve as the lead worker in overseeing and performing complex design, analysis, and maintenance of computer applications and systems; serves as a project and team lead over other developers; assists in the planning and coordination of programming activities within the organization; and performs other duties as assigned.

DISTINGUISHING CHARACTERISTICS

This is the lead worker of the Developer series. Incumbents in this class are expected to utilize a considerable degree of independent judgment as it relates to systems analysis and design; perform the most difficult and complex analysis, design and maintenance of automated and manual computer systems; and direct others in training less experienced analyst staff. Errors in judgement may result in significant exposure to the organization.

REPORTS TO

Information Technology Director
Applications Manager

CLASIFCATIONS DIRECTLY SUPERVISED

- Developer I, II

EXAMPLES OF DUTIES

Duties include, but are not limited to the following:

- Acts as project leader, lead worker, and senior staff member in major development and programming projects/initiatives
- Designs, codes, tests, and modifies complex computer programs, scripts, and other executables
- Supports existing applications, application integrations, custom interfaces, reporting, and automation work
- Coordinates system and programming activities with other members of the IT Department
- Investigates methods and procedures for system development and implementation, including cost and efficiency analysis of alternatives
- Consults with and assists the IT Director in coordinating the programming workload and overall function of the division
- Develops and maintains an effective working relationship with clients

QUALIFICATIONS

Thorough knowledge of:

- Principles and techniques of industry standard programming languages including HTML & CSS, JavaScript, and Python
- Version control and management of codebases
- Database structure and design using SQL (or other relational databases) and No-SQL databases including the ability to integrate with applications and APIs
- Transforming data between formats using Export, Transform, Load methods between frameworks such as XML, JSON, Excel, SQL, etc.
- Web application design, standards, and practices
- User interface/experience design philosophy

- Geographic Information Systems including the Esri Enterprise platform
- Internet technology including HTTP/HTTPS, web APIs, DNS, Web Servers, Caching, Security, and Permissions
- Program documentation concepts
- Methods and practices for mentoring and younger staff development

Working knowledge of:

- Code Testing principles and practices
- Proprietary 'Low Code' platforms including Power Automate and Quickbase
- C# development principles
- Web-based authentication and security including OAuth, Tokens, JWT, Cookies, etc.
- Native Mobile App development concepts
- Concepts of operating systems including memory management, I/O, processing, etc.
- Web server functionality and management including SSL certificates, proxies, and permissions

Ability and Willingness to:

- Manage projects associated with application selection, design, development, and integration
- Conduct business analysis with customers and other members of the IT Department
- Understand and support existing applications and scripts
- Develop new computer and integrate existing applications using custom development and scripting
- Analyze data, methods, and procedures accurately and logically
- Communicate clearly in both written and oral forms to a diverse group of individuals
- Establish priorities and direct activities of assign work as appropriate while managing a small team
- Think creatively for the good of the organization and arrive at service oriented solutions
- Effectively represent the County's Information Technology Department
- Serve as a Disaster Service Worker during certain emergency situations
- Maintain documentation of agency systems, data, and metadata
- Maintain confidentiality, where necessary

TRAINING AND EXPERIENCE

- The completion of an Associates or College degree is preferred; however
- At least three years of experience in role equivalent to or greater than Developer II

TYPICAL PHYSICAL REQUIREMENTS

Sit for extended periods; frequently stand, walk, stoop, kneel and crouch; physical ability to lift and carry objects weighing up to 50lbs. on an occasional basis and in excess of 50lbs. with assistance; normal manual dexterity and hand-eye coordination; corrected hearing and vision to normal range; verbal and written communication skills; use of office equipment including computers, telephones, calculators, copiers and FAX.

TYPICAL WORKING CONDITIONS

Work is performed in an office; occasionally working outside; exposure to electrical energy and dust; frequent contact with staff and public.

SPECIAL REQUIREMENTS:

- Satisfactory completion of a Department of Justice background investigation.
- Possession of a valid driver's license
- May work more than a normal 8:00am to 5:00pm shift
- May drive in excess of 90 miles a day

This job specification should not be construed to imply that these requirements are the exclusive standards of the position. Not all duties are necessarily performed by each incumbent. Additionally, incumbents will be required to follow instructions and to perform other job related duties as may be required.

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Salary Range 81