



CITY OF SEATAC
invites applications for the position of:
GIS Systems Analyst

An Equal Opportunity Employer

SALARY: \$32.52 - \$41.63 Hourly
\$5,636.00 - \$7,215.00 Monthly

OPENING DATE: 10/09/17

CLOSING DATE: Continuous

BASIC FUNCTION:

This position is overtime eligible and a member of the AFSCME Collective Bargaining Unit.

Under direction of the GIS Coordinator/Analyst, the GIS Systems Analyst serves as a technical expert supporting an enterprise GIS program housed in the City's Information Systems division. The employee occupying this position will be responsible for the development, implementation and maintenance of geodatabases and software tools for performing a broad range of technically complex duties on multiple computing platforms and for integrating map services into user applications. As a member of the IS/GIS team, this position addresses the needs of internal customers, researches and solves information technology problems, generates reliable, publication quality information products, provides high quality customer service and support for users of the systems and provides training to staff.

REPRESENTATIVE DUTIES:

- Serve as a technical lead for GIS enterprise systems: data management – geodatabase design, database optimization, data integrity, data acceptance testing, data loading, metadata development and production database automation; application management – needs assessment, system architecture, implementation processes, software installation, integration testing, system acceptance testing, performance tuning, documentation, and system rollout. E
- Diagnose and resolve problems related to GIS software, web services, permissions, databases, printers and mobile devices. E
- Implement and integrate 3rd party software packages that utilize GIS technology. E
- Plan and execute software upgrades, ensuring version compatibilities. E
- Construct scalable GIS systems and web services that are able to serve new purposes or improve a workflow. E
- Support and maintain legacy systems and software tools. E
- Perform complex data manipulation for data migration, data analysis, generation of custom reports. E
- Perform complex spatial analysis, using spatial queries, dynamic segmentation, and network

analysis. E

- Produce custom, publication-quality maps and illustrations, adhering to the City's general design guidelines and the GIS division's cartographic standards. E
- Provide high-quality, detailed consultation services to city departments, technical support and troubleshooting, with an emphasis on customer satisfaction. E
- Maintain detailed, up-to-date documentation of GIS procedures, designs and code, and write metadata. E
- Maintain knowledge of current GIS methods, applications and database technologies through professional literature, product research, and continuing education. E
- Serve as backup to other staff performing IS and GIS functions in the organization, to ensure continuity of services and support. E
- Maintain regular, predictable attendance during regularly scheduled work hours. E
- Work a flexible schedule, which may occasionally include evenings and weekends. E
- Perform other duties as assigned.

E denotes an essential function of the job.

REQUIRED EDUCATION AND EXPERIENCE:

- Bachelor's degree in geography, geomatics, computer science, or related field
- A minimum of five years of related GIS experience
- Experience with ESRI ArcGIS 10.x Desktop, ArcSDE, ArcGIS Server, Python
- A combination of education, training and experience

DESIRED QUALIFICATIONS:

- Working knowledge of Geocortex Essentials, Cityworks Extension for Geocortex Essentials, and Geocortex Workflows
- Experience with SQL Server, ArcGIS Online or Portal, web services, MS Visio or other UML design tools
- Experience with C#, .NET, MS Visual Studio
- Experience working in an enterprise GIS team environment
- Experience with municipal GIS

KNOWLEDGE, SKILLS & ABILITIES:

- Principles of geography and mapping sciences, including coordinate systems, projections and units, and cartography
- Principles and practices of geographic information systems, the ArcGIS suite of integrated applications, GPS and mobile technology
- Principles and practices of multi-user geospatial database development and maintenance.
- Principles of Structured Query Language (SQL) for querying databases to extract information and build data reports
- Principles and practices of application development for desktop and web technologies
- Principles and practices of cartographic design, including different approaches for print media, digital products, and interactive web-based maps
- Principles and practices of creating and maintaining metadata for spatial and other data, and documentation of project methodology

- Research methods, data collection and statistical analysis
- Skill in ArcSDE administration, including installation and configuration of software, creating and administering ArcSDE geodatabases, managing permissions, in a MS SQL Server environment
- Skill in MS SQL Server administration in support of ArcSDE geodatabases, and for integration of programs that share data between SQL databases
- Skill in ArcGIS Server administration, including installation and configuration, managing permissions, monitoring and tuning for performance
- Skill in managing rights, permissions and security with MS Active Directory
- Skill in web mapping technology and components, including HTML5, Silverlight, .NET, JavaScript API, CSS3, IIS, REST, XML
- Skill in use of web mapping components to create, publish, and consume web-based content using REST-based ArcGIS services
- Skill in trouble-shooting client/server computer systems and networks, web, and mobile technologies
- Use of advanced ArcGIS Desktop spatial analytic tools, including ArcGIS extensions
- Skill in editing spatial data in a versioned, ESRI SDE geodatabase environment, enforcing topology rules, and maintaining complex data types that include subtypes and event layers
- Skill in scripting and creating tools for recurring processes to manipulate and port data, using Model Builder, ArcPy, python, SQL
- Excellent interpersonal skills for establishing and maintaining effective working relationships
- Ability to demonstrate excellent organization, time management, problem solving and planning skills to meet schedules and timelines
- Ability to work independently with little supervision
- Ability to work in a team environment to help solve complex problems
- Ability to communicate technical ideas in non-technical terms to assist staff in understanding and using GIS applications
- Ability to communicate effectively both orally and in writing
- Ability to maintain a patient, tactful and courteous demeanor while providing good customer service
- Ability to work in a multicultural work-place and with diverse customers, emphasizing communication for cooperation, collaboration, and inclusiveness

LICENSES AND OTHER REQUIREMENTS:

A valid Washington State driver's license and three year driving record abstract must be submitted prior to hire.

WORKING CONDITIONS:**ENVIRONMENT:**

Work is performed in an office environment with extensive time spent at a desktop computer. Some travel and attendance at evening meetings is required.

PHYSICAL ABILITIES:

Sitting and standing for extended periods of time; dexterity of hands and fingers to operate a computer keyboard and mouse; seeing to review plans and projects; hearing and speaking to

exchange information.

HAZARDS:

None other than standard hazards involved in working in an office position and driving a vehicle to meetings.

HOW TO APPLY:

Individuals interested in this position are encouraged to complete the following:

- an online application
- respond to the supplemental questions
- submit a resume
- submit a cover letter addressing how you meet or exceed the required education and experience

The successful candidate must pass a background check, and must submit a driving abstract prior to being hired.

APPLICATIONS MAY BE FILED ONLINE AT:

<http://www.ci.seatac.wa.us>

Job #06-092017B
GIS SYSTEMS ANALYST
MW

OUR OFFICE IS LOCATED AT:

4800 South 188th Street

SeaTac, WA 98188

Job Line: (206) 973-4655, Fax: (206) 973-4809, TDD: (206) 973-4808

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GIS Systems Analyst Supplemental Questionnaire

1. This position requires a minimum of five years of related GIS experience. Tell me how you meet this qualification.

- * 2. Do you have experience with ESRI ArcGIS 10. x Desktop?
 Yes No

- * 3. If you answered yes to the above question, please describe your experience with ESRI ArcGIS 10. x Desktop

- * 4. Do you have experience with ArcGIS Server?

Yes No

- * 5. If you answered yes to the above question, please describe your experience with ArcGIS Server?

- * 6. Do you have experience with ArcSDE?
 Yes No

- * 7. If you answered yes to the above question, please describe your experience with ArcSDE.

- * 8. Do you have experience with SQL databases?
 Yes No

- * 9. If you answered yes to the above question, please describe your experience with SQL databases.

- * 10. Do you have experience with Python?
 Yes No

- * 11. If you answered yes to the above question, please describe your experience with Python.

- * 12. Do you have experience with ArcGIS Online or Portal?
 Yes No

- * 13. If you answered yes to the above question, please describe your experience with ArcGIS Online or Portal.

- 14. Do you have experience with Geocortex Essentials?
 Yes No

* 15. If you answered yes to the above question, please describe your experience with Geocortex Essentials.

* Required Question