



City of Tempe

GEOGRAPHIC INFORMATION SYSTEM (GIS) ANALYST+

JOB CLASSIFICATION INFORMATION

<i>Job Code:</i>	242	<i>Department:</i>	Engineering & Transportation/ Municipal Utilities
<i>Supervision Level:</i>	Non-Supervisor	<i>State Retirement Group:</i>	ASRS
<i>Status:</i>	Classified	<i>Market Group:</i>	GIS Analyst+
<i>Safety Sensitive / Drug Screen:</i>	No	<i>Physical:</i>	No

Click [here](#) for more job classification information including current salary range.

DISTINGUISHING CHARACTERISTICS

The GIS Analyst+ is the full journey level class within the series. Employees within this class are distinguished from the GIS Technician+ by the performance of the full range of City GIS data production, support, training and related specialized duties as assigned including more complex, long term, and interdepartmental work assignments. Employees at this level receive only occasional instruction or assistance as new or unusual situations arise and are fully aware of the operating procedures and policies of the work unit.

Positions in these classes are flexibly staffed. Advancement to the GIS Analyst+ level requires that the employee be satisfactorily performing the full range of duties at the journey level, and that the employee meets the minimum requirements. Note that for existing employees, advancement to the GIS Analyst class, GISP Certification, or appropriate equivalent may substitute for one year of experience.

REPORTING RELATIONSHIPS

Receives general supervision from the Principal Civil Engineer or from other supervisory or management staff.

May exercise functional and technical direction over lower level and temporary staff.

MINIMUM QUALIFICATIONS

<i>Experience:</i>	Three (3) years of GIS and IT experience in City GIS production mapping practices and City GIS data and application management practices with emphasis in City GIS data and application distribution, analysis, reporting, support, programming, or maintenance at a departmental level.
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<i>Education:</i>	Equivalent to an associate degree from an accredited college or university with coursework in GIS, land surveying, geography, civil engineering, CAD drafting, or degree related to the core functions of this position.
<i>License / Certification:</i>	<ul style="list-style-type: none"> ● Possession of a valid driver’s license. ● Certification as a Certified GIS Professional (GISP) from the GIS Certification Institute (GISCI), Certified GIS/LIS Technologist from the American Society for Photogrammetry and Remote Sensing (ASPRS), or equivalent technical certification in GIS or geospatial technology is preferred.

ESSENTIAL JOB FUNCTIONS

Essential job functions are the fundamental duties of a position: the things a person holding the job absolutely must be able to do.

To actively support and uphold the City's stated mission and values. To perform a variety of routine and complex technical GIS (Geographic Information System) and IT duties involved in the management, production, distribution, training, and data and application support of the City GIS database.

OTHER DUTIES AS ASSIGNED

Please note this job description is not designed to cover or contain a comprehensive listing of all activities, duties or responsibilities that are required of the employee for this job. Duties, responsibilities and activities may change at any time with or without notice.

- Maintain and update City GIS master database of landbase, utility, infrastructure, city-wide control and custom digital maps using GIS data, both raster and vector and other associated databases utilizing GIS data editing and maintenance applications, CAD (computer aided design) editing applications, internet/intranet web applications, and other computer software.
- Ensure spatial accuracy and data quality of geospatial and attribute data encoding to the City GIS database; performs high accuracy geospatial mapping by COGO (coordinate geometry) mapping techniques, links attributes to geospatial objects, and edits attribute database.
- Research, interpret and analyze a variety of civil engineering and real estate records to update the City GIS database including legal descriptions, civil engineering plans, as-builts, aerials, field checks, work orders, address reports, and other engineering office files.
- Research, access, and utilize permit and property management system, engineering document management system, web-based parcel management systems, and other IT and GIS databases.
- Provide City GIS database information and data for use by the public, other City departments, and outside agencies including architects, engineers, land surveyors, developers, designers, planners, appraisers, utility companies, other municipalities, and federal, state, and county governments.
- Provide GIS support for civil engineering projects.
- Operate GIS/CAD workstation to update City GIS database as new data is received on new subdivisions, developments, capital improvement projects; maintenance work orders, update spatial and attribute database information from as-built records, implement computer plotting as required; maintain backups and other computer operating system, file system, and application issues.

- Provide GIS spatial and attribute data analysis, SQL database analysis, custom GIS and digital maps, GIS data extractions, digital imagery, and specialized plotting capabilities for internal and external customers using GIS, CAD, digital image editing and other software.
- Assist in quality control, quality assurance, and system maintenance processes in the GIS data production routines including the processing of completed GIS map updates, commit updates to master repository, initiate off-hours batch processes, startup and shutdown of production PC's, workstations, and servers, and check work of temporary workers and contracted data products.
- Assist in large-scale corrective processes of the City GIS database and related digital mapping and data documents, including research and verification from source documents.
- Participate in the development, coordination, and maintenance of policies and procedures regarding City GIS data management and delivery
- Assist with city-wide maintenance and support of City GIS related software, hardware, applications, source code, data files, database system, operating system environment settings, and internet/intranet web data; coordinate related support with IT support work group.
- Assist with city-wide support and training in the usage and application of City GIS database information including preparation of documentation, and training materials.
- Develop and assume responsibility for specialized and custom GIS datasets, databases, layers, and coverages; write and maintain computer batch files, shell scripts, user commands, internet/intranet applications and pages, other programs, menus, and applications for GIS data management and data distribution.
- Operate as a work group liaison to other GIS, ITD, and additional work groups for support, implementation, and coordination of GIS projects and tasks within the city and to other outside agencies as assigned.
- Assist in providing production-specific direction, and work assignments, for interns, temporary, and other contracted or assigned personnel working on the City GIS database.
- Perform related duties as assigned.

When Assigned to the Municipal Utilities Department - Water Utilities Division:

- Enter, maintain and update City GIS master database of utility data associated with water production and distribution, wastewater collection, storm drains, and flood irrigation.
- Provide support to Computerized Maintenance Management System (CMMS), support, maintenance, and updates for the City's Asset Management database, and support and maintenance for GIS applications related to water and wastewater inventory and work orders to ensure data integrity.
- Operate as a work group with CMMS (Computerized Maintenance Management System), and as a liaison with other City GIS workgroups, ITD, and non-GIS work groups for support, implementation, and coordination of asset management related GIS projects and tasks within the city and to other outside agencies as assigned.
- Specialized knowledge of Asset Management for Water Distribution system and/or Wastewater Collections system, ESRI ArcGIS Suite including Desktop, ArcGIS Server/Enterprise, and ArcGIS Online.

PHYSICAL DEMANDS AND WORK ENVIRONMENT

- Operate city vehicles;
- Climb stairways, ladders, and work on elevated structures;
- Work in a stationary position for considerable periods of time;
- Operates computers, calculators, and other office machines;
- Extensive reading and close vision work;
- May work along for extended periods of time.

COMPETENCIES

<i>CLASSIFICATION LEVEL</i>	<i>INCLUDES</i>	<i>COMPETENCIES</i>
Foundational	All Employees	Inclusion, Communication, Interpersonal Skills, Integrity, Professionalism, and Willingness to Learn
Non-Supervisory	In Addition >	Teamwork, Customer Service, Initiative, and Dependability / Reliability
Supervisory	In Addition >	Staffing, Monitoring Work, Delegating, Development / Mentoring, and Support Others
Manager	In Addition >	Preparing / Evaluating Budgets, Monitoring / Controlling Resources, and Motivating / Inspiring
Deputy Director	In Addition >	Entrepreneurship and Networking
Director	In Addition >	Organizational Vision
<p><i>For more information about the City of Tempe's competencies for all classifications:</i> City of Tempe, AZ : Competencies</p>		

JOB DESCRIPTION HISTORY

*Effective November 2005 (previously part of Engineering Tech I/II classification).
Retro-active to January 2005.
Revised January 2017 (add physical /mental activities)
Revised September 2019 (Update department info, min quals, and job duties)*