Job Title: Senior GIS Technician

Department: Engineering

Immediate Supervisor: GIS Coordinator

Origination Date:	**10/17/2005**
Revision Date:	**07/01/2008**
Job Grade	**808**
FLSA Status	**Non-exempt**

BRIEF DESCRIPTION OF THE JOB:

The Senior GIS Technician provides technical and functional supervision to GIS Technicians. Duties may include assigning and checking work of GIS staff; coordinating development and implementation of GIS computer applications within a department; entering required data into the GIS using Global Positioning Systems (GPS), AutoCAD, and GIS software; and inputting, updating, and maintaining GIS databases, layers, and linkages to various databases.

ESSENTIAL FUNCTIONS:

This information is intended to be descriptive of the key responsibilities of the position. The following examples do not identify all duties performed by any single incumbent.

	Physical Strength Code	ESSENTIAL FUNCTIONS
1	L	Provides technical and functional supervision to GIS Technicians and other GIS staff. Serves as technical lead on various GIS projects; distributes assignments and reviews the completed work of GIS staff; trains others on the use of the Internet Mapping System and various GIS applications; updates Engineering department's web pages; demonstrates continuous effort to improve operations; and coordinates development and implementation of GIS computer applications within a department.
2	L	Assists in the maintenance of the City's Geographical Information System (GIS). Coordinates the production of digital and paper map products; develops and maintains GIS databases and linkages; performs high level GIS analysis functions and modeling; reads and interprets source documents such as, engineering plans, plat maps, and legal descriptions; implements quality control for GIS procedures and products; develops customized GIS/CAD automation tools; assists other City departments to coordinate GIS development; coordinates with a GIS specialist/consultant to improve and further develop the GIS; and makes recommendations for improvements and upgrades to GIS processes, maps, software, and website.
3	L	Operates computer equipment utilizing Global Positioning Systems (GPS), CAD, and GIS software to create, update, and maintain maps of parcels, streets, right-of-way, water, reclaimed water, sanitary sewer, storm sewer, zoning, land use, and various other layers; ensures quality control of spatial and attribute data; and develops automation tools to improve drafting and quality control.
4	L	Assigns and maintains all addresses in the GIS database that are required and/or requested for permitting purposes; assigns street names for all streets and maintains a street name database; conforms to the City's street naming and addressing policy; works closely with Community Development and other departments on addressing and street naming issues.

	Physical Strength Code	ESSENTIAL FUNCTIONS
5	L	Coordinates requests from internal and external customers over the phone and in person for maps or other material; performs archive database queries; creates maps and/or plots using CAD/GIS software, and provides technical assistance.
6	L	Acquires knowledge and keep abreast of new GIS technology trends. Attends GIS seminars, workshops, conferences, and quarterly Maricopa County GIS Technical Council meetings; subscribes to, and reads, trade journals; and participates in professional organizations.
7	L	Provides coordination and assistance for Public Safety GIS needs. Coordinates and assists in the development, maintenance, and distribution of maps, files, layers, databases, and drawings in support of various Public Safety operations and applications.
8	L	Operates peripheral devices such as plotters, printers, digital cameras, and scanners; performs routine maintenance of record drawings database; attends meetings; and assists with various miscellaneous projects as needed.

JOB REQUIREMENTS:

JOB REQUIREMENTS	
Formal Education/ Knowledge	Work requires broad knowledge in a general professional or technical field. Knowledge is normally acquired through four years of college resulting in a Bachelor's degree or equivalent.
Experience	Minimum five years experience in a related field.
Certifications and Other Requirements	Valid Driver's License
Reading	Work requires the ability to read general correspondence, documents, engineering technical standards, civil engineering plans, computer technical manuals, and engineering manuals.
Math	Work requires the ability to perform general engineering calculations, trigonometry, algebra, geometry, and general math calculations such as addition, subtraction, multiplication, and division.
Writing	Work requires the ability to write general correspondence, memorandums, reports, GIS/CAD procedures, and letters.
Managerial	Complex- Work requires functioning as a lead worker performing essentially the same work as those directed, and includes overseeing work quality, training, instructing, and scheduling work.
Policy/Decision Making	Moderate - The employee normally performs the job by following established standard operating procedures and/or policies. There is a choice of the appropriate procedure or policy to apply to duties. More complex work as well as decisions with more significant impacts may be reviewed prior to being finalized.
Technical Skills	Comprehensive Application - Work requires a comprehensive, practical knowledge of a technical field with use of analytical judgment and decision-making abilities.
Interpersonal/Human Relations Skills	High - In addition to the sharing of information, interactions at this level may also include providing advice to others outside direct reporting relationships on specific problems or general policies/procedures. In many of the interactions, contacts may require the consideration of different points of view to reach agreement. Elements of persuasion may be necessary to gain cooperation and acceptance of ideas.

Physical Demands

Frequency Code Scale

N = Never	R = Rarely	O = Occasionally	F = Frequently	C = Constantly
Never occurs	Less than 1 hour/week	Up to 1/3 of the time	From 1/3 to 2/3 of the time	2/3 or more of the time

Physical Demand	Frequency Code (Mark only one)	Description: (Check all that apply)
Standing	☐ N ☐ R ☒ O ☐ F ☐ C	☐ Making presentations ☐ Observing work site ☐ Observing work duties ☒ Communicating with co-workers
Fine Dexterity	☐ N ☐ R ☐ O ☒ F ☐ C	☒ Computer keyboard ☒ Telephone keypad ☒ Calculator ☐ Calibrating equipment
Walking	☐ N ☐ R ☒ O ☐ F ☐ C	☒ To other departments/offices ☐ Around work site
Lifting	☐ N ☐ R ☒ O ☐ F ☐ C	☒ Supplies ☒ Equipment ☒ Files
Carrying	☐ N ☐ R ☒ O ☐ F ☐ C	☒ Supplies ☒ Equipment ☒ Files
Sitting	☐ N ☐ R ☐ O ☐ F ☒ C	☒ Desk work ☒ Meetings ☒ Driving
Reaching	☐ N ☒ R ☐ O ☐ F ☐ C	☒ For supplies ☒ For files
Handling	☐ N ☐ R ☐ O ☒ F ☐ C	☒ Paperwork ☐ Monies
Kneeling	☐ N ☒ R ☐ O ☐ F ☐ C	☒ Filing in lower drawers ☒ Retrieving items from lower shelves/ground
Crawling	☐ N ☒ R ☐ O ☐ F ☐ C	☒ Under equipment ☐ Inside attics/pipes/ditches

Physical Demand	Frequency Code (Mark only one)	Description: (Check all that apply)
Pushing/ Pulling	☐ N ☐ R ☒ O ☐ F ☐ C	☒ File drawers ☒ Equipment ☒ Tables and chairs ☐ Hoses
Climbing	☐ N ☒ R ☐ O ☐ F ☐ C	☒ Stairs ☐ Ladders ☐ Step stools ☐ Onto equipment
Vision	☐ N ☐ R ☐ O ☐ F ☒ C	☒ Reading ☒ Computer screen ☒ Driving ☐ Observing work site
Foot Controls	☐ N ☒ R ☐ O ☐ F ☐ C	☒ Driving ☐ Operating heavy equipment ☐ Operating Dictaphone
Balancing	☒ N ☐ R ☐ O ☐ F ☐ C	☐ On ladders ☐ On equipment ☐ On step stools
Bending	☐ N ☐ R ☒ O ☐ F ☐ C	☒ Filing in lower drawers ☒ Retrieving items from lower shelves/ground ☒ Making repairs
Crouching	☐ N ☒ R ☐ O ☐ F ☐ C	☒ Filing in lower drawers ☒ Retrieving items from lower shelves/ground
Hearing	☐ N ☐ R ☐ O ☒ F ☐ C	☒ Communicating via telephone/radio, to co-workers/public ☐ Listening to equipment
Twisting	☐ N ☒ R ☐ O ☐ F ☐ C	☒ From computer to telephone ☒ Getting inside vehicle
Talking	☐ N ☐ R ☐ O ☒ F ☐ C	☒ Communicating via telephone/radio, to co-workers/public
Other		(Explain)

Physical Demands (continued)

Machines, Tools, Equipment and Work Aids:

Telephone, fax, copier, vehicle, Global Positioning System(GPS) receiver, ruler, calculator, digital camera.

Computer Equipment and Software:

Personal computer, laptop, large format scanner and plotter, GIS, CAD and related software.

Environmental Factors:

Environmental Conditions	Never	Seasonally	Several Times Per Month	Several Times Per Week	Daily
Extreme temperature (heat, cold, extreme temp. changes from outside work)	☐	☒	☐	☐	☐
Wetness and/or humidity (bodily discomfort from moisture)	☒	☐	☐	☐	☐
Respiratory hazards (fumes, gases, chemicals, dust and dirt)	☒	☐	☐	☐	☐
Noise and vibration (sufficient to cause hearing loss)	☒	☐	☐	☐	☐
Physical hazards (high voltage, dangerous machinery, aggressive prisoners, patients – not customers)	☒	☐	☐	☐	☐

Health and Safety Conditions:

Health and Safety Conditions	N = Never	R = Rarely	O = Occasionally	F = Frequently	C = Constantly
	Never occurs	Less than 1 hour per week	1/3 or more of the time	From 1/3 to 2/3 of the time	2/3 or more of the time
Mechanical hazards	☒	☐	☐	☐	☐
Chemical hazards	☒	☐	☐	☐	☐
Electrical hazards	☒	☐	☐	☐	☐
Fire hazards	☒	☐	☐	☐	☐
Explosives	☒	☐	☐	☐	☐
Communicable diseases	☒	☐	☐	☐	☐
Physical danger or abuse	☒	☐	☐	☐	☐
Other (specify)	☐	☐	☐	☐	☐

Primary Work Location:

☒ Office Environment
☐ Warehouse
☐ Shop
☐ Vehicle
☐ Recreation Centers/Neighborhood Centers
☐ Outdoors
☐ Other (Specify)

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Protective Equipment Required:

Safety vest and hard hat.

Job Demands

Overall Strength Demands:

Overall Strength Demands	
☒ Sedentary	Exerting up to 10 pounds occasionally or negligible weights frequently; sitting most of the time.
☐ Light	Exerting up to 20 pounds occasionally, 10 pounds frequently, or negligible amounts constantly AND/OR walking or standing to a significant degree.
☐ Medium	Exerting 20-50 pounds occasionally, 10-25 pounds frequently, or up to 10 pounds constantly.
☐ Heavy	Exerting 50-100 pounds occasionally, 25-50 pounds frequently, or from 10 up to 20 pounds constantly.
☐ Very Heavy	Exerting over 100 pounds occasionally, 50-100 pounds frequently, or from 20 up to 50 pounds constantly.

Non-physical Demands:

Non-physical Demands	Frequently	Occasionally	Rarely	Never
Time Pressures	☒	☐	☐	☐
Emergency Situations	☐	☒	☐	☐
Frequent Change of Tasks	☒	☐	☐	☐
Irregular Schedule/Overtime	☐	☐	☒	☐
Performing Multiple Tasks Simultaneously	☒	☐	☐	☐
Working Closely with Others as Part of a Team	☐	☒	☐	☐
Tedious or Exacting Work	☒	☐	☐	☐
Noisy/Distracting Environment	☐	☐	☒	☐
Other (Describe below.)	☐	☐	☐	☐

EXPECTED BEHAVIOR:

Staff – Expected Behavior

The employee is expected to embrace, support, and promote the City's values, beliefs, and culture Which include but are not limited to the following:

- Be positive. Do not participate in gossip
- Maintain confidentiality
- Walk the talk – uphold and live the Goodyear culture
- Encourage positive feedback
- Be accountable – submit responses to all requests for information by due date and meet deadlines
- Support a learning culture
- Be on time for all meetings
- Create and implement ethical standards for your worksite
- Be fiscally responsible
- Support the City's values and mission
- Let common sense prevail
- Be visionary – anticipate issues
- Support organizational change
- Establish and maintain positive and effective working relationships with co-workers, supervisors, subordinates, contractors and vendors
- Understand City policies and procedures, make rational decisions/recommendations in accordance with established policy.
- Work in a safe manner and report unsafe activities and conditions. Follow the City-wide safety policy and everyone's responsibility. Make it a critical part of the day to day operations.
- Foster teamwork and actively participate on teams and in City activities
- Lead by example
- Provide outstanding customer service to internal and external customers

These traits are not basic job requirements but are expected behavior. Other duties and responsibilities will be performed as assigned.

SIGNATURES—REVIEW AND COMMENT:

I have reviewed this job analysis and its attachments and find it to be an accurate description of the demands of this job.

	_____	_____
	Signature of Employee	Date
_____	_____	_____
Job Title of Supervisor	Signature of Supervisor	Date
_____	_____	_____
Job Title of Department Director	Signature of Department Director	Date

Comments:_____

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The above statements are intended to describe the general nature and level of work being performed by individuals assigned to this job. They are not intended to be an exhaustive list of all responsibilities, duties, and skills required of personnel so classified in this position. This job description is subject to change as the needs and requirements of the job change.