



Title: Traffic Signal Systems Specialist

FLSA Status: (Non-Exempt)

BRIEF DESCRIPTION:

The purpose of this position is to perform highly specialized and complex paraprofessional traffic engineering work. This is accomplished by applying technical knowledge and experience to traffic signal timing and coordination, traffic signal studies, and computerized traffic signal programming and control. Other duties may include completing related tasks as assigned.

ESSENTIAL FUNCTIONS:

Note: This information is intended to be descriptive of the key responsibilities of the position. The list of essential functions below does not identify all duties performed by any single incumbent in this position. Additionally, please be aware of the legend below when referring to the physical demands of each essential function.

(S) Sedentary	(L) Light	(M) Medium	(H) Heavy	(V) Very Heavy
Exerting up to 10 lbs. occasionally or negligible weights frequently; sitting most of the time.	Exerting up to 20 lbs. occasionally; 10 lbs. frequently; or negligible amounts constantly; OR requires walking or standing to a significant degree.	Exerting 20-50 lbs. occasionally; 10-25 lbs. frequently; or up to 10 lbs. constantly.	Exerting 50-100 lbs. occasionally; 10-25 lbs. frequently; or up to 10-20 lbs. constantly.	Exerting over 100 lbs. occasionally; 50-100 lbs. frequently; or up to 20-50 lbs. constantly.

#	Code	Essential Functions
1	L	Prepares the signal timing and coordination at new and existing signal locations and oversees the implementation.
2	L	Troubleshoots and assists with the repairs of the City's fiber optic to wireless radio communication infrastructure and coordinates with contractors to ensure that the correct fiber and configurations are used in new installations.
3	S	Determines the need for new traffic signals or for upgrading existing signals and ITS (Intelligent Transportation System) and designs new traffic signals.
4	S	Creates traffic signal equipment specifications, written traffic engineering reports, and traffic signal design research projects.
5	S	Attend meetings with other jurisdictions related to Traffic Management and signal systems and coordinates traffic signal issues throughout the region.



JOB REQUIREMENTS:

-Description of Minimum Job Requirements	
Experience	4-6 years experience. Considerable previous experience required in the same or similar previous positions. The job requires an expert or journey level of knowledge of common and uncommon techniques, concepts, methods, practices, procedures, use of forms, routines, etc., of an extremely complex nature.
Education	Two year college program or equivalent combinations resulting in accumulation of similar knowledge or skills.
Technical Skill	Advanced technical skills. Work requires advanced skills, specialized knowledge, and extensive expertise in approaches and systems.
Physical Demands	Work requires light or low amount of physical exertion. The job requirements for manual dexterity or physical manipulation are limited. The need for physical stamina and endurance is of minimal or low significance. The degree of physical strain produced on the job is somewhat taxing, but does not usually produce fatigue and require periods of rest. Freedom of movement exists, and the job does not confine the employee to a prescribed body posture. Body movement usually involves sitting and intermittent walking.
Contacts	Contacts are an integral part of the job as work involves internal and external contacts for the purpose of problem-solving with respect to matters of considerable importance to the organization requiring tact, diplomacy and persuasiveness and/or where no guidelines exist. Improper handling could affect relationships between departments or functions. Contacts are frequently at the same or higher levels. Interactions may affect City business. Work involves regular contact with people who are upset, uncooperative or have difficulty communicating their requirements and/or a regular requirement to communicate information that people do not want to hear or may find upsetting.
Responsibility	The job requires the provision of guidance and training to others. The job does not have formal or official supervisory responsibilities. The job does not perform a personnel function, supervise the employees or handle non-work problems.
Accountability	Decision/action situations have a significant impact on the organization. Errors are difficult to detect and result in immediate impact on resources and continuing influence on operational effectiveness. Revenue, productivity, service, quality, security of assets or external relationships may be adversely affected. Corrections may be more costly than original action.
Environment	Exposure to some undesirable or unpleasant environmental characteristics. Physical environment is generally safe and there is minimal health risk. No safety equipment or unusual precautions are required.
Safety	Responsible for personal performance as a source of serious safety risk. Work involves the use of hazardous tools, equipment and/or materials OR ensuring organizational compliance with rules, procedures and legislation for safe operation of facility, safety and development of safe work procedures.
Reading	Advanced - Ability to read literature, books, reviews, scientific or technical journals, abstracts, financial reports, and/or legal documents. Ordinarily, such education is obtained in at the college level or above. However, it may be obtained from experience and self-study.
Math	Advanced - Ability to apply fundamental concepts of theories; work with advanced mathematical operations methods and functions of real and complex variables. Ordinarily, such education is obtained in at the college level or above. However, it may be obtained from experience and self-study.
Writing	Advanced - Ability to write editorials, journals, speeches, manuals, or critiques. Ordinarily, such education is obtained in at the college level or above. However, it may be obtained from experience and self-study.
Certifications & Other Requirements	Valid Arizona Class "D" Drivers License upon hire.



OVERALL PHYSICAL STRENGTH DEMANDS:

-Physical strength for this position is indicated below with "L"-				
Sedentary	Light	Medium	Heavy	Very Heavy
Exerting up to 10 lbs. occasionally or negligible weights frequently; sitting most of the time.	Exerting up to 20 lbs. occasionally, 10 lbs. frequently, or negligible amounts constantly OR requires walking or standing to a significant degree.	Exerting 20-50 lbs. occasionally, 10-25 lbs. frequently, or up to 10 lbs. constantly.	Exerting 50-100 lbs. occasionally, 10-25 lbs. frequently, or up to 10-20 lbs. constantly.	Exerting over 100 lbs. occasionally, 50-100 lbs. frequently, or up to 20-50 lbs. constantly.

PHYSICAL DEMANDS:

C Continuously <small>2/3 or more of the time.</small>	F Frequently <small>From 1/3 to 2/3 of the time.</small>	O Occasionally <small>Up to 1/3 of the time.</small>	R Rarely <small>Less than 1 hour per week.</small>	N Never <small>Never occurs.</small>
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Note: This is intended as a description of the way the job is currently performed. It does not address the potential for accommodation.

-Physical Demand-	-Frequency-	-Brief Description-
Standing	O	Observing work site, observing work duties, communicating with co-workers
Fine Dexterity	F	Computer keyboard, telephone keypad, calculator
Walking	O	To other departments/offices, around work site
Lifting	R	Supplies, files
Carrying	O	Supplies, files
Sitting	F	Desk work, meetings, driving
Reaching	O	For supplies, for files
Handling	O	Paperwork
Pushing/Pulling	R	File drawers, tables and chairs
Climbing	O	Stairs, step stools
Vision	C	Reading, computer screen, driving
Foot Controls	O	Driving
Balancing	O	On step stools
Bending	R	Filing in lower drawers, retrieving items from lower shelves/ground
Crouching	R	Filing in lower drawers, retrieving items from lower shelves/ground
Hearing	F	Communicating via telephone/radio, to co-workers/public
Kneeling	O	Filing in lower drawers, retrieving items from lower shelves/ground
Crawling	N	Under equipment
Twisting	R	From computer to telephone
Talking	F	Communicating via telephone/radio, to co-workers/public
Other (specified if applicable)		



MACHINES, TOOLS, EQUIPMENT, SOFTWARE, AND HARDWARE:

Standard office equipment, Microsoft, Internet, related software: Photo Editor, Paint, Siemens I2, Camera Cameleon, Telnet, Hyper Terminal, Ruggedcom, Trafficon’s T-Port & ViewcomE, Econlite Autoscope Network Browser, Impath Networks, ADOT Highway Condition Reporting System, AutoCad, Visio, switches, OTDR, Power Meter, Light Meter

ENVIRONMENTAL FACTORS:

C Continuously	F Frequently	O Occasionally	R Rarely	N Never		D Daily	W Several Times per Week	M Several Times per Month	S Seasonally	N Never
-Health and Safety Factors-						-Environmental Factors-				
Mechanical Hazards					N		Extreme temperature			S
Chemical Hazards					N		Wetness and/or humidity			S
Electrical Hazards					R		Respiratory hazards			N
Fire Hazards					N		Noise and vibration			S
Explosives					N		Physical hazards			M
Communicable Diseases					N					
Physical Danger or Abuse					N					
Other:										

PROTECTIVE EQUIPMENT REQUIRED:

Hardhat, safety vest, and safety footwear.

NON-PHYSICAL DEMANDS:

F Frequently From 1/3 to 2/3 of the time	O Occasionally Up to 1/3 of the time	R Rarely Less than 1 hour per week	N Never Never occurs
-Description of Non-Physical Demands-			-Frequency-
Time Pressure			F
Emergency Situation			R
Frequent Change of Tasks			F
Irregular Work Schedule/Overtime			R
Performing Multiple Tasks Simultaneously			F
Working Closely with Others as Part of a Team			F
Tedious or Exacting Work			O
Noisy/Distracting Environment			R
Other			

PRIMARY WORK LOCATION:

Office Environment	X	Vehicle	
Warehouse		Outdoors	
Shop		Other	
Recreation/Neighborhood Center			