



## Title: Senior Civil Engineer

FLSA Status: Exempt

### BRIEF DESCRIPTION:

The purpose of this position is to design, review and manage infrastructure, development side and public improvement projects, participating in the preparation and execution of capital improvement plans, act as liaison to outside agencies, administer contracts, and to address citizen concerns. This is accomplished by reviewing plans and specifications, designing solutions, expansion, construction or relocation projects, coordinating with developers, contractors, consultants, the public and departments, developing plans and specifications, participating in consultant selection, coordinating inspections, and monitoring budgets. Other duties include negotiating fees, managing field operations, preparing grants, and completing special projects.

### 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	S	Manages projects by preparing statements of work and project scopes, prepares project estimates working with consultants, verifying calculations, finalizing recommendations, processing contract documents, coordinating work with other departments and agencies, monitoring project progress, inspecting work, modifying designs, ensuring code compliance, recommending payments, and closing out projects.
2	L	Coordinates work with outside agencies by establishing and maintaining working relationships, developing interagency agreements, prioritizing joint projects, attending meetings, coordinating work statements, and responding to inquiries.
3	S	Completes reporting requirements by developing formats and reports, maintaining project status information, developing and publishing calendars, and providing information to the public.
4	S	Researches new methods and maintains professional development by participating in meetings and conferences, developing new methods and procedures, incorporating new systems and work elements, and attending training.



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5	S	Prepares budgets by forecasting projects and expenditures, presenting proposals for approval, preparing estimates, authorizing payments, and monitoring expenditures for recommended adjustments.
6	S	Monitors code compliance by reviewing drawings and designs for compliance, and meeting and coordinating with other agencies, staff, consultants and other project stakeholders to determine project scope of work and requirements.
7	S	Prepares letters, memos, specifications and reports by communicating with the general public, other local, state and federal employees, vendors, management, consultants and contractors through the project study, design, and approval processes.
8	S	Resolve construction field problems by visiting sites to understand scope of problem, interpreting construction drawings and specifications, and conveying and coordinating solutions.



**JOB REQUIREMENTS:**

-Description of Minimum Job Requirements-	
Formal Education	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	Over seven years up to and including nine years experience.
Supervision	Work requires the occasional direction of helpers, assistants, seasonal employees, interns, volunteers or temporary employees.
Human Collaboration Skills	Decisions regarding implementation of policies may be made. Contact may involve support of controversial positions or the negotiation of sensitive issues or important presentations. Contacts may involve stressful, negative interactions with the public requiring high levels of tact and the ability to respond to aggressive interpersonal interactions.
Freedom to Act	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. Performance reviewed periodically.
Technical Skills	Advanced: Work requires advanced skills and knowledge in approaches and systems, which affect the design and implementation of major programs and/or processes organization-wide. Independent judgment and decision-making abilities are necessary to apply technical skills effectively.
Budget Responsibility	Position has moderate fiscal responsibility. Makes recommendations toward fiscal decisions within the department. May be responsible for the billing, collection and/or accounting of funds. May be responsible for the handling and balancing of cash.
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.
Certification & Other Requirements	Valid driver's license, Registered Professional Engineer in Arizona



**OVERALL PHYSICAL STRENGTH DEMANDS:**

-Physical strength for this position is indicated below with "X"-					
Sedentary	X	Light	Medium	Heavy	Very Heavy
Exerting up to 10 lbs. occasionally or negligible weights frequently; sitting most of the time.	X	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	Making presentations, observing work site, communicating with co-workers
Sitting	C	Desk work, meetings, driving
Walking	O	To other departments/offices, around work site
Lifting	R	Supplies, files
Carrying	R	Equipment, files
Pushing/Pulling	R	File drawers
Reaching	R	For supplies, for files
Handling	F	Paperwork
Fine Dexterity	F	Computer keyboard, telephone keypad, calculator
Kneeling	R	Filing in lower drawers, retrieving items from lower shelves/ground
Crouching	R	Filing in lower drawers, retrieving items from lower shelves/ground
Crawling	R	Under equipment
Bending	R	Filing in lower drawers, retrieving items from lower shelves/ground
Twisting	F	From computer to telephone, getting inside vehicle
Climbing	R	Stairs, ladders
Balancing	R	On ladders
Vision	C	Reading, computer screen, driving, observing work site
Hearing	C	Communicating via telephone/radio, to co-workers/public
Talking	C	Communicating via telephone/radio, to co-workers/public
Foot Controls	O	Driving
Other (specified if applicable)		



**MACHINES, TOOLS, EQUIPMENT, SOFTWARE, AND HARDWARE:**

Computers, printers and related software, vehicle, camera

**ENVIRONMENTAL FACTORS:**

<b>C</b> Continuously	<b>F</b> Frequently	<b>O</b> Occasionally	<b>R</b> Rarely	<b>N</b> Never
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<b>D</b> Daily	<b>W</b> Several Times Per Week	<b>M</b> Several Times Per Month	<b>S</b> Seasonally	<b>N</b> Never
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<b>-Health and Safety Factors-</b>	
Mechanical Hazards	R
Chemical Hazards	N
Electrical Hazards	N
Fire Hazards	N
Explosives	N
Communicable Diseases	N
Physical Danger or Abuse	R

<b>-Environmental Factors-</b>	
Respiratory Hazards	N
Extreme Temperatures	M
Noise and Vibration	N
Wetness/Humidity	S
Physical Hazards	S

**PROTECTIVE EQUIPMENT REQUIRED:**

Protective clothing, safety footwear, protective eyewear, hard hat

**NON-PHYSICAL DEMANDS:**

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

**PRIMARY WORK LOCATION:**

Office Environment	X	Vehicle	
Warehouse		Outdoors	
Shop			
Recreation/Neighborhood Center			