



# City of Tempe

## WATER RESOURCES HYDROLOGIST

### JOB CLASSIFICATION INFORMATION

<i>Job Code:</i>	389	<i>Department:</i>	Municipal Utilities
<i>Supervision Level:</i>	Non-Supervisor	<i>State Retirement Group:</i>	ASRS
<i>Status:</i>	Classified	<i>Market Group:</i>	Chemist II
<i>Safety Sensitive / Drug Screen:</i>	Yes	<i>Physical:</i>	Yes

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

### REPORTING RELATIONSHIPS

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

### MINIMUM QUALIFICATIONS

<i>Experience:</i>	Four (4) years of experience in one of the following fields: water resource management, water supply regulatory management, hydrology, geohydrology, civil engineering, or environmental engineering.
<i>Education:</i>	Equivalent to a bachelor’s degree from an accredited college or university in water resources, watershed management, hydrology, geology, engineering, environmental planning, natural resource management, or degree related to the core functions of this position. A master’s degree is preferred.
<i>License / Certification:</i>	<ul style="list-style-type: none"> <li>• Possession of a valid driver’s license.</li> <li>• Professional certification as a geologist or engineer is preferred.</li> </ul>

### 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 manage water resource and technical/hydrologic programs for the Water Utilities Division of the Municipal Utilities Department. The Water Resources Hydrologist has program or project management authority for a wide variety of water and wastewater resource infrastructure issues.

### 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.

- Oversee studies of groundwater contaminant sites; design and initiate pump tests and aquifer tests; conduct groundwater modeling and contaminant transport modeling; prepare technical/hydrologic reports; maintain hydrologic records database; perform groundwater/surface water interaction studies; and perform hydrologic assessments such as groundwater and watershed modeling;
- Manage all groundwater recharge facilities and projects for the City; design and initiate recharge studies and pilot tests; oversee and monitor recharge project operations; and maintain recharge records database;
- Determine best sites for new production wells based on aquifer conditions and groundwater quality; examine water distribution system issues for new well sites; secure all necessary permits and regulatory approvals; approve new well site selection based on production rate and water quality criteria; and examine opportunities to improve well production and water quality through well rehabilitation and modifications to existing wells;
- Assist with the preparation, interpretation, and administration of water and wastewater resource and infrastructure master plans; and conduct water and wastewater flow analysis;
- Develop technical specifications and analyze requests for proposals for services and products, analyze proposals, recommend consultant selection, and act as lead for contract administration and management of work by outside consultants on assigned projects;
- Work with State and Federal regulatory agencies on regulatory compliance; secure all permits necessary for specific projects and program areas; and file all required reports in a timely manner;
- Exercise, update, and maintain City's water and sewer infrastructure models; perform system modeling studies of the distribution and collection infrastructure; and maintain and develop infrastructure system model databases;
- Review water resource related capital improvement projects and coordinate with Engineering to meet water utility needs;
- Manage, coordinate, or perform research on assigned problems, issues, special and/or ongoing programs and projects including their design, development, coordination, and implementation; analyzes findings; develop technical reports and recommendations for water and wastewater hydrologic problems; and present findings in oral or written form;
- Serve as a City representative on various committees and regulatory matters;
- Coordinate project activities with other City departments, divisions, and sections and with outside agencies including consultants, engineers, and contractors;
- Perform related duties as assigned.

## PHYSICAL DEMANDS *AND* WORK ENVIRONMENT

- Lift heavy objects up to 50 lbs.;
- Operate a city vehicle;
- Use tools (i.e. hammers, shovels, wrenches or screwdrivers, etc.);
- Climb stairways, ladders, and work on elevated structures;
- Traverse uneven surfaces;
- Traverse long distances during workday with or without an accommodation;
- Work in a stationary position for considerable periods of time;

- Operate computers, calculators, and other office machines;
- Extensive reading and close vision work;
- Work out-of-doors in inclement weather;
- Exposure to heat, cold, dampness, dust, pollen, odors, fumes, etc.;
- May work alone 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

*For more information about the City of Tempe's competencies for all classifications:*

[City of Tempe, AZ : Competencies](#)

## JOB DESCRIPTION HISTORY

*Effective 05/22/00*

*Revised 11/29/00*

*Revised February 2015 (job duties)*

*Revised March 2019 (PW reorg – moved to Municipal Utilities Dept.)*