

## STATE OF ARIZONA JOB CODE CLASSIFICATION SPECIFICATION

<b>FLSA:</b>	<b>EXP</b>	<b>Job Code:</b>	<b>ACV37228</b>
<b>Job Class Code:</b>	<b>270</b>	<b>Salary Schedule:</b>	<b>ASRRENVEN</b>
<b>EEO Category:</b>	<b>02</b>	<b>Grade:</b>	<b>23</b>
<b>Workers Comp Code:</b>	<b>8601</b>		

<b>Job Code Established:</b>	<b>07/20/94</b>	<b>Effective Date:</b>	<b>07/20/94</b>
<b>Job Code Revised:</b>	<b>01/01/01</b>	<b>Effective Date:</b>	<b>01/01/01</b>

**JOB CODE SERIES:** Environmental Engineering Series

**JOB CODE TITLE:** ENVIRONMENTAL ENGINEER – SENIOR

**HRIS TITLE:** ENVMTL ENGR SR

**WORK DESCRIPTION:** Directs and coordinates large technical or complex environmental engineering projects or studies in a particular field of expertise. Responsible for developing engineering-oriented design and operational standards, rules, policies and strategies governing sanitary (drinking water, wastewater treatment and solid waste disposal) and pollution control (air, surface water, groundwater, soils, hazardous wastes, petroleum spills, etc.) facilities; makes independent professional engineering judgments, decisions and certifications; reviews plans for complex facilities to assure compliance; confers with applicants, owners, operators, and consulting engineers to resolve technical problems; issues permits; inspects facilities to assure proper construction and operation; and investigates complaints where advanced engineering expertise is required.

**WORK ACTIVITIES:** Responsible for work of considerable difficulty either as 1) a senior level staff member planning, directing and overseeing environmental engineering projects of considerable complexity often as head of a team, or 2) an engineer possessing expert knowledge in a specialty field such as transport/fate modeling/environmental remediation design and construction, or engineering contract management and responsible for work of extreme complexity in assigned specialty.

Develops agency criteria, standards, guidelines, policies, and rules relating to engineering aspects of the design, construction and operation of sanitary and/or pollution control facilities and of the remediation of pollution occurrences.

Plans, directs and leads major/complex projects requiring a multi-disciplinary approach to problem/issue identification/resolution.

Performs engineering calculations and analyses to evaluate permit applications, construction plans and remediation plans; establishes permit conditions relating to design, construction, operation, discharge limitations and quality, pollution prevention, monitoring and reporting; determines if the proposed technologies and design specifications are adequate to the proposed applications.

Reviews and approves or denies plans for the construction of new facilities, taking into account their potential impact on public health and the environment; provides expert review of complex projects.

Serves as task/project responsible engineer for all work products including engineering seals or certifications as required.

Reviews and approves or denies permit applications for facilities subject to permitting requirements.

Inspects complex water/wastewater systems, solid/hazardous waste facilities and/or air pollution control facilities to determine compliance with state and federal requirements.

Develops techniques and guidelines for uniform engineering inspection of regulated facilities.

Inspects industrial and commercial facilities as sources of environmental pollution; examines pollution control equipment and processes; gathers data for use in making technical decisions

regarding environmental pollution control. Observes, analyzes and evaluates results of water, wastewater, air and hazardous waste pollution sources, pollution source emissions testing, air testing procedures, laboratory analysis procedures and makes technical evaluations from the data collected. Confers with, and advises representatives of local government or industry on technical issues relating to pollution control. Reviews and develops technical specifications of solid waste, hazardous waste, air quality or water quality management plans. Reviews plans for completeness, adequacy and viability. Authors, reads, and interprets scientific and technical journals and reports and federal and state statutes, codes and rules for application in assigned specialty. Performs related work as required.

**WORK CONDITIONS:** Facility inspections and field investigations necessitate exposure to variable weather conditions and occasionally to hazardous materials/conditions. Office environment with occasional overnight travel for meetings or field work.

**SUPERVISION:** Under general direction of an Environmental Program Manager or Assistant Director, exercises considerable independent judgment in interpreting and applying engineering principles, technical standards, rules, policies and strategies in reviewing the design, construction and operation of sanitary and pollution control facilities.

**WORK RESULTS/PRODUCTS:** Recommendations directly influence management decisions within the agency and in a particular field of expertise; approved engineering-oriented design and operational standards, rules, policies and strategies governing sanitary and pollution control facilities; approved construction plans; final permits; approvals of construction; completed inspection and complaint investigation reports.

**RESPONSIBILITY:** For soundness of engineering judgment used in all work; for accepting responsibility for tasks requiring the rendering of professional engineer sealing and/or certifications; for timely and accurate completion of work assignments; for scheduling and prioritizing assignments; for scheduling and reviewing the work of subordinate technical and/or professional staff assigned to assist with special projects.

**AUTHORITY:** To define objectives and make decisions for assigned environmental engineering projects/programs; to write and approve contents and negotiate settlement of highly complex and sensitive issues; to interpret, interpolate and extrapolate engineering-oriented design and operational standards, rules, policies and strategies governing sanitary and pollution control facilities; to approve or disapprove construction plans; to issue or deny permits on technical merits; to approve or disapprove construction; to approve or disapprove proposed remedial actions.

## **KNOWLEDGE, SKILLS AND ABILITIES**

**Knowledge of:** engineering principles and practices relating to the design, construction and operation of sanitary and pollution control facilities; engineering methods and analytical techniques used in investigating problems and resolving complaints; Federal and State environmental statutes applicable to the area of assignment; engineering records, reports and sources of information available for use in the area of assignment.

**Ability to:** apply engineering principles and methods to direct complex environmental projects or studies; use engineering principles and methods in developing engineering-oriented design and operational standards, rules, policies and strategies governing sanitary and pollution control facilities; review construction plans, permit applications, construction, operation and proposed redemption plans; establish and maintain work relationships with agency staff, other governmental

officials, the regulated community and the public; apply the principles and practices of leadership and work management; obtain needed information and resolve problems; communicate verbally and in writing.

**SPECIAL SELECTION FACTORS:** Required at time of appointment: Registration in the State of Arizona as a professional engineer in a field appropriate to the assignment OR proof of eligibility for reciprocity.