

COUNTY OF SOLANO
CIVIL ENGINEER – ENVIRONMENTAL (ENTRY)

Est. 01/01

DEFINITION

Under general supervision, performs a broad range of moderately complex, professional engineering work which requires the application of public health, environmental and civil engineering principles, practices and theories; performs related duties as required.

DISTINGUISHING CHARACTERISTICS

This is the entry level in the professional Civil Engineer – Environmental series and is characterized by the responsibility for performing specialized engineering duties that relate to controlling environmental pollutants and public health hazards. This class is distinguished Civil Engineer – Environmental in that the latter is assigned complex projects and manages assigned projects which require exercising independent judgment and initiative.

EXAMPLES OF DUTIES

Depending on assignment, duties may include but are not limited to the following:

1. Conducts or assists in detailed hydrogeological studies to determine environmental contamination from hazardous substances; reviews engineering reports and specifications regarding the remediation of contaminated soil and ground water sites; evaluates reports of soil and ground water degradation and pollution resulting from leaking underground tanks; makes recommendations for the elimination of tanks.
2. Assists in reviewing underground storage tank groundwater monitoring plans for compliance with State laws and regulations; consults with other responsible agencies and groups to coordinate investigations and site mitigations.
3. Assists in the development and implementation of site assessment and mitigation policies and procedures; conducts professional reviews of reports and investigations submitted to the Environmental Management by other professionals in the field for compliance with applicable laws and regulations.
4. Develops, implements, and maintains procedures and policies for investigation of unauthorized releases of hazardous substances from underground storage tanks.

5. Assists in and learns to apply principles of specialized professional engineering activity such as controlling environmental pollutants and public health hazards.
6. Interacts with public and professional organizations in matters of engineering, geology, hydrogeology and environmental health.
7. Learns to provide training to hazardous materials professionals and industry operators on hydrogeological management.

QUALIFICATION GUIDELINES

Education and/or Experience

BS degree in geology, hydrology, or environmental or civil engineering and,

Six months of professional experience in the field of Environmental Engineering with an emphasis in hazardous substances and water quality.

Knowledge/Abilities

Considerable knowledge of modern principles and practices in civil engineering and surveying; mathematics, physics and chemistry as applied to Civil, Hydrogeological or Environmental engineering; mathematics, physics and chemistry as applied to the field of engineering; principles and practices of engineering, geology, hydrology and hydrogeological exploration and assessment with a strong emphasis in hazardous substances and water quality; procedures for addressing complex hydrogeological problems related to hazardous substances in the subsurface environment. Principles and practices of site mitigation and aquifer restoration technologies; laws and regulations related to hazardous substances and hazardous wastes; underground storage tanks, well drilling, water quality protection, and others applicable to hazardous materials management and environmental health.

Ability to plan, organize and implement highly specialized technical projects with a minimum of supervision; analyze situations accurately and adopt an effective course of action; interpret and apply federal, state and local laws, regulations and policies; analyze and interpret technical data regarding leaking underground tank sites; prepare technical reports; develop and implement operational procedures; make decisions and independent judgments; communicate effectively both verbally and in writing; establish and maintain cooperative working relationships; collect and analyze data to draw logical conclusions and make appropriate recommendations; secure cooperation and teamwork among professional and/or support staff; understand and analyze expenditure reports.

Knowledge/Abilities, (Continued)

Maintain accurate records and document actions taken; research regulations, procedures and/or technical reference materials; project consequences of decisions; work effectively with others who have objectives counter to assigned role.

SPECIAL REQUIREMENTS

Possession of or ability to obtain Engineer-in-Training Certificate is required.

Possession of or ability to obtain a valid Class C California driver's license may be required.

SUPPLEMENTAL INFORMATION

Independent travel is required.

Incumbents must be able to perform basically sedentary work.

Incumbents may be required to work outside normal business hours.

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