

SENIOR ENVIRONMENTAL ENGINEER

DEFINITION: Under general supervision, performs advanced engineering work of considerable difficulty; engineering problems are of significant depth and complexity and are resolved independently within prescribed procedures and guidelines; serves as lead worker with responsibility for a major portion of a pollution prevention or environmental control program; positions at this level are authoritative in the respective engineering specialty; performs related work as assigned.

ESSENTIAL FUNCTIONS: This list is ILLUSTRATIVE ONLY and is not a comprehensive listing of all functions and tasks performed by incumbents of this class.

TASKS:

Independently addresses and reconciles a broad range of complex engineering problems which may or cannot be adequately assessed and determined from measurement or observation alone; deals extensively with controversial economic and public policy issues which are likely to hinder progress of construction or operating permits; applies professional judgment where a variety of conflicting engineering related conditions present a major problem; represents department with authority on technical engineering matters; applies professional registration seal to plans and specifications prepared; develops procedures and standards for multiple engineering projects that are significantly technical and complex.

Coordinates inspections and investigations of pollution sources, treatment systems, proposed facility sites, existing buildings or energy systems to determine compliance with applicable regulations, verify characteristics of site or to give technical assistance on various environmental or energy related issues; conducts inspections of complex facilities; provides technical expert testimony on engineering projects; provides opinion and advice on circumstantial issues; serves as technical advisor on local, federal and state regulations; coordinates work efforts with other organizations and/or programs to ensure compatibility of engineering approach and for optimum results.

KNOWLEDGE, SKILLS AND OTHER CHARACTERISTICS:

Knowledge of the principles, practices and techniques applied in engineering as relates to environmental control facilities, systems, operating procedures, instrumentation and related control devices.

Knowledge of local, state and federal environmental or energy regulations.

Knowledge of the fundamentals of a natural science as they relate to environmental, pollution prevention or energy issues.

Knowledge of techniques used in identifying, measuring, sampling and studying environmental control.

Knowledge and understanding of federal and state agency roles, goals, objectives and jurisdiction as they relate to the control and management of engineering projects on lands owned by the Navajo Nation.

Knowledge and understanding of economics as related to planning, designing and construction practices.

Knowledge of the application of engineering research and study methods.

Knowledge of computer hardware, software and peripherals.

Skill in scheduling, inspecting and providing surveillance of methods and equipment used in construction.

Skill in establishing and maintaining effective working relationships with professional engineers, government agencies and the general public.

Ability to read and understand plans and specifications and make factual comparisons to appropriate regulations.

Ability to apply technical knowledge to problems and arrive at the most effective and economical solution.

Ability to enforce, comply and assure safety standards and health regulations.

Ability to make technical computations and calculations involving the application of engineering principles.

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Ability to prepare accurate reports, charts and maps for interpretation or presentation of data, findings or analysis.

Ability to provide work guidance to professional or technical personnel.

PHYSICAL REQUIREMENTS AND WORK ENVIRONMENT: Work requires attention to detail with potential exposure to loud noises, dust, toxic chemicals and fumes when working on site.

MINIMUM QUALIFICATIONS:

- A Bachelor's degree in Environmental, Chemical or Civil Engineering, Environmental Science or related field; and five (5) years engineering experience, two (2) years of which must have been in a supervisory capacity.

PREFERRED QUALIFICATIONS:

- A Master's degree in Environmental Engineering or Environmental Science.
- Experience in mining industry.
- Possess registration as a Professional Engineer (PE) in the state of Arizona, New Mexico or Utah.

SPECIAL REQUIREMENTS:

- Possess a valid state driver's license.

Supplemental Requirements:

Incumbent must obtain a Navajo Nation Vehicle Operator's Permit within 90 days of date of hire.

Depending upon the needs of the Nation, some incumbents of the class may be required to demonstrate fluency in both the Navajo and English languages as a condition of employment.