

MINING ENGINEER

DEFINITION: Under general direction, performs professional work in mining engineer of moderate difficulty; assist and provides expertise in surface mining and geo-technical engineering; 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:

Serves as a technical mining engineer; provides assistance to senior level scientific staff engaged in overseeing the Nation's solid mineral program; provides technical assistance in area of conducting coal reserve evaluation, mine cost analysis, bond estimation and earthwork, and estimates for surface coal mining; reviews coal mining plans and lease applications for energy related rights of way, including sand and gravel permits; evaluates proposed mining plans, checking for requirements for efficient and non-wasteful extraction; takes positive action in the enforcement of contract provisions, including lease terms.

Conducts studies of mineral industry; determines industrial and commercial outlook for minerals; gathers production statistics; appraises magnitude of measured reserves; analyzes mining and production cost; analyzes market for mineral products; investigates mineral characteristics of lands for mineral resource; provides written recommendations on prevailing royalty rates, bonds, terms, and conditions for the protection and sale of the Nation's resources; conducts economic evaluation of mining and energy related proposals; reviews company proposals and recommends counter proposals; negotiates with senior scientific staff in securing optimum revenue return for the Nation.

Plans and carries out investigations of conventional mining problems and/or operations; develops and applies solutions to problems following prescribed mining guidelines and regulations; seeks guidance from senior level scientific staff where mining problems become highly controversial.

KNOWLEDGE, SKILLS AND OTHER CHARACTERISTICS:

Knowledge of mining engineer methods and practices related to mineral exploration and development.

Knowledge of economic principles as related to mining.

Knowledge of Federal and Navajo Nation laws, rules, and regulations related to mining and energy development contracts, agreements, leases and projects.

Knowledge of research methods and practices.

Knowledge of economic forecasting measures and methods.

Skill in analyzing mining proposals, contracts and agreement.

Skill in developing supportive data, financial analysis, and economic trends to assist in contract negotiation.

Skill in researching, analyzing and interpreting economic trends related to mining revenues.

Skill in establishing and maintaining effective working relationships.

Ability to interpret complex federal mining laws.

PHYSICAL REQUIREMENTS AND WORK ENVIRONMENT: Work environment involves occasional site inspection of mining and drilling sites with potential exposure to extreme temperatures, toxic gases, fumes and chemicals.

THE NAVAJO NATION

Class Code: 3344
Natural Resources and Parks Series
Environmental Sciences Group
Overtime Code: Exempt
Pay Grade: 65

MINING ENGINEER

MINIMUM QUALIFICATIONS: A Bachelor's degree in Mining Engineering or a related field; and three (3) years mining engineering experience. A valid Navajo Nation Vehicle Operator's Permit and a valid state driver's license required.

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.