

BOTANIST

DEFINITION: Under general supervision, performs professional and scientific work related to the study and application of the fundamental principles of botany and the related natural and physical sciences to problems of a botanical nature; 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:

Performs work involving the investigation of life cycles, growth habits, distribution, and studies the anatomical, morphological, and cytological, characteristics of plants; conducts ecological studies and work of a related nature; studies and interprets specific botanical features, such as the identification of seeds and fruits, and the application of botanical knowledge in work of a similar nature; studies the development, physiology, heredity, environment, distribution, and structure of plants.

Examines the effect of environmental factors, such as rainfall, temperature, climate and soil on plant growth; investigates plant growth, development, reproduction, and maturity; inventories and collects rare plants growing on lands within the Navajo Nation; consults records of the Navajo Nation and Bureau of Indian Affairs (BIA), universities, and other heritage programs for data on rare plants; develops Natural Heritages data base; promotes public awareness on rare or endangered plants.

KNOWLEDGE, SKILLS AND OTHER CHARACTERISTICS:

Knowledge of the fundamental scientific laws and principles underlying the plant sciences.
Knowledge of plant anatomy, morphology, cytology, and physiology, etc.
Knowledge of related biological and physical sciences.
Knowledge of the related biological and physical sciences as they apply to the plant sciences.
Skill in performing the full body of professional botanical work.
Skill in establishing and maintaining effective working relationships with others in the work place.
Skill in planning, organizing and directing the work of others.
Skill in writing technical documents.

PHYSICAL REQUIREMENTS AND WORK ENVIRONMENT: Work involves sedentary work in an office environment, and moderate physical effort in botanical field work.

MINIMUM QUALIFICATIONS: A Bachelor's degree in Botany, Plant Science, or a related field, and four (4) years professional experience in botany.

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