

NATURAL RESOURCES SPECIALIST INTERMEDIATE - ECOLOGICAL SERVICES

KIND OF WORK

Professional ecological work.

NATURE AND PURPOSE

Under limited supervision, design and conduct assessments of aquatic and terrestrial ecosystems; analyze and communicate assessment results; make habitat management recommendations; plan, coordinate, implement habitat management and development activities on ecosystems; implement the development of interpretive and educational materials; and perform related work as required.

Differs from entry level in its focus on biological studies and specific problems and greater level of discretion and the responsibility for analysis, publication, and presentation of data. Differs from senior level in either its focus on specific projects rather than an overview of a statewide program; or statewide projects of narrow scope.

EXAMPLES OF WORK (A position may not include all the work examples given, nor does the list include all that may be assigned.)

Design research studies, surveys, and special investigations to obtain information about aquatic and terrestrial communities (i.e., plants, animals, and their habitats), both native and exotic, by determining the scope of study or survey, identifying material needs and scheduling field work.

Conduct field studies or surveys by: securing permission from landowners to conduct surveys, prepare forms; planning and coordinating field schedules; implementing field sampling procedures based on site-specific conditions; obtaining field data (e.g., identify aquatic and terrestrial exotic threats, lake mapping, inventory rare plant species, etc.); recording/verifying/editing field data; reviewing data results; collecting and processing voucher specimens; and acquiring and maintaining equipment.

Prepare and disseminate reports, journal articles, and presentations to other divisions, agencies, the scientific community, and the general public so that data is evaluated within an ecological context and made available to enhance education, facilitate environmental review, and direct conservation actions.

Recommend, implement, monitor, and evaluate the success of habitat management actions by evaluating existing habitat conditions; identifying habitat management needs; and developing specific habitat improvement recommendations.

Oversee administrative tasks by assisting in recruiting, interviewing, training, directing, and evaluating technicians/interns; tracking and compiling management activities and expenses; establishing contracts with outside researchers or vendors; and assisting in budget management.

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED

Knowledge of:

Aquatic biology/ecology, biology, botany, conservation biology, geology, landscape ecology, community ecology, limnology, fisheries, ecology, wildlife management, or zoology sufficient to interpret data and apply knowledge to project activities.

Writing skills sufficient to develop project proposals, accomplishment reports, survey results, and correspondence.

Census and survey techniques, trapping and banding techniques and radio telemetry sufficient to carry out projects requiring use of these techniques.

Questionnaires and surveys sufficient to design, implement, compile, and analyze results.

Statistics and computers sufficient to properly apply to the analysis of data.

Ability to:

Compile, write and edit clear and accurate reports sufficient to communicate technical information with professionals and the general public.

Read and interpret aerial photographs and maps.

Work cooperatively as a team member sufficient to accomplish agency goals.

Write and speak effectively sufficient to communicate with professionals and the general public.

Apply accepted techniques in the investigation of projects sufficient to collect information.

Lead work of others sufficient to accomplish projects.

Fly in small aircraft at low altitudes as an observer in aerial surveys.

Work in adverse weather and environmental conditions.

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Class Specification

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Maintain mechanical and construction equipment.

Operate and maintain motorized equipment and tools used in managing habitats.

Plan a survey schedule sufficient to obtain relevant data in a timely and efficient manner.

Est.: 08/30/00

Rev.:

Ckd.:

T.C.:

Former Title(s):