

NATURAL RESOURCES SPECIALIST - ECOLOGICAL SERVICES

KIND OF WORK

Professional aquatic and terrestrial biology work.

NATURE AND PURPOSE

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

At this level, focus of work is on applying standard methods to collection and analysis of data to contribute to major reports or for clearly defined projects/programs. At the Intermediate level, by contrast, incumbents are also involved in assisting in planning reviews and investigations and providing biological and technical expertise to DNR staff and the public.

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

Implement the compilation, analysis, summary, and interpretation necessary to transform research data (e.g., effects of prescribed burns) and field reports into useful formats and evaluate their significance and impact.

Implement or assist with 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, so decisions will be based on sound data by training seasonal employees in methods and techniques; conducting and leading surveys; following established methods and procedures; writing summaries and making recommendations.

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, data, and presentations to other divisions, agencies, the scientific community, and the general public by encouraging cooperation with projects, providing information on project parameters, consulting on problems, making community presentations, and writing explanatory material.

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

Operate, organize, maintain or oversee maintenance of equipment; construct or repair equipment; and recommend needed equipment and materials by inspecting, constructing, or repairing equipment, recommending needed equipment and materials, and ensuring that equipment use records are updated.

Perform other related duties.

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.

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):