

NATURAL RESOURCES SPECIALIST SENIOR - WILDLIFE RESEARCH

KIND OF WORK

Professional wildlife biology research work.

NATURE AND PURPOSE

Under administrative direction, independently performs professional wildlife research work, assisting the Research Scientist 2 in planning management oriented research, leading seasonal employees in conducting research, evaluating new technology, and providing biological expertise to wildlife professionals and the public; perform related work as required.

Senior level is distinguished from lower levels (examples: Natural Resources Specialist, Intermediate - Wildlife Research and Natural Resources Specialist - Wildlife Research) by responsibility for long range planning of research studies, short-term goals and projects/programs with statewide impact. It is distinguished from the NR Supervisor Senior level by its narrower scope, lack of responsibility for planning a research group's overall work plan, and lack of supervisory responsibility.

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

Designs research studies and wildlife population surveys to increase scientific knowledge applicable to wildlife management by determining needs, planning investigations, formulating tests or hypotheses.

Conducts wildlife research so valid findings are reported by maintaining field and laboratory equipment, making field decisions, and leading the work of others.

Analyzes and evaluates research findings to reach valid conclusions by preparing collected material, identifying, quantifying, analyzing, summarizing, and interpreting data.

Prepares progress reports and final reports by analyzing data, organizing material, and putting it into report format.

Plans investigations to support wildlife management projects by consulting with management staff to determine needs, conducting literature reviews, designing investigations, identifying equipment, personnel, time and budget needs, sampling techniques and analytical methodology.

Report on species in natural communities to professional and lay clientele so data is incorporated into the planning process and knowledge is expanded by interpreting project results, writing management policies and resource inventory documents, writing technical articles for publication, presenting papers at scientific conferences or public meetings, writing popular articles, and making audio visual presentations.

Administer projects so program goals are met by assessing needs of project, selecting/supervising staff, determining priorities, monitoring work.

Communicate with other researchers and the public on research projects so that the scientific community and the public are aware of the work being done by writing technical reports and articles for lay audiences, giving presentations at conferences, and talks to groups.

### KNOWLEDGE, SKILLS AND ABILITIES REQUIRED

Knowledge of:

Wildlife ecology and management, data analysis and interpretation sufficient to conduct research investigations, interpret and analyze data, and prepare final reports and support research activities of higher level research biologists.

Parasites, diseases, trauma, and reproductive physiology sufficient to identify cause of death and provide depositions for use in court cases.

Formulation of hypotheses and experimental designs sufficient to support the statistical and scientific validity of research projects.

Plant taxonomy and plant ecology sufficient to interpret data and serve as a technical assistant to senior biologists.

Computer applications sufficient to manage data input, retrieval and compilation, design simple computer programs, maintain data bases and train others in the use of the system.

Statistics sufficient to analyze data properly.

Wildlife harvest techniques and wildlife related recreational patterns sufficient to plan for population control and multiple use in wildlife areas.

Ability to:

Identify the need for and plan original research and inventory techniques.

Supervise and administer research programs.

Natural Resources Specialist Senior - Wildlife Research

Class Specification

Page 3

Communicate orally and in written form with diverse audiences, including both lay and peer groups, sufficient to document and disseminate completed research results.

Write and edit reports and articles sufficient to be published in scientific journals.

Plan, organize, and conduct field research sufficient to collect pertinent data.

Interpret wildlife and other data sufficient to draw reasonable conclusions.

Conduct many phases of field work including aerial and terrestrial, radio-telemetry, capturing and handling wildlife animals, wildlife census, vegetation and food habit analysis.

Maintain and operate equipment sufficient to collect data.

Lead work of others.

Work in adverse weather and environmental conditions.

Est.: 08/30/00

Rev.:

Ckd.:

T.C.:

Former Title(s):