

FISHERIES BIOLOGIST

NATURE OF WORK

This is highly advanced professional and technical work in a research support capacity in the Ocean Sciences Centre.

Work involves responsibility for conducting research into the relationships, development and functions of marine animals and related environment. An employee in this class functions as an essential and senior member of a research team. Work may involve supervision of other professional and technical employees. Work is performed with considerable independence under the direction of the research team leader. Supervision received is through discussion of research objectives and observation of results obtained to verify validity of findings.

ILLUSTRATIVE EXAMPLES OF WORK

Plans field and laboratory studies; collects necessary tissue and samples; co-ordinates examination of specimens and their related characteristics.

Reviews current scientific literature; determines material relevant to present research; adapts or modifies procedures as necessary.

Examine specimens using techniques such as chromatography, electrophoresis, radioimmuno assays, infusions, bioassays and radioactive labelling.

Co-ordinates and participates in the analysis of data obtained; records results and prepares graphs and charts as necessary.

Assist in the compiling of data and preparation of reports or scientific papers.

Participate in the participation of grant proposals.

Supervises subordinate technical or research positions; assigns and reviews work; establishes priorities and provides training as required.

REQUIREMENTS OF WORK

Considerable experience in fisheries research; completion of college level course work equivalent to a masters degree; or any equivalent combination of experience and training which provides the following knowledge, abilities and skills:

Thorough knowledge of the methods, materials, procedures and techniques used in fisheries research laboratory work.

Thorough knowledge of the practical and potential value of research and experimentation in the area of fisheries.

Thorough knowledge of the principles of fisheries research.

Considerable knowledge of research procedures of anaesthesia, surgery, biopsy, injection, blood sampling and related protocols.

Considerable knowledge of biochemical and physiological procedures.

Some knowledge of research costs and administration.

Ability to prepare written reports of test results and analyses.

Ability to evaluate and analyze techniques and procedures and to develop new techniques and procedures.

Ability to observe, analyze and report objectively the results of research experimentation.

Ability to plan, organize and direct the work of research or technical staff.

Ability to establish and maintain effective working relationships with faculty and subordinate research personnel.

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