

 <p>STATE OF INDIANA CLASSIFICATION SPECIFICATION</p>	Class Title: Microbiologist 2		Class Code: 001LB2
	FLSA Status: Exempt	Salary Schedule: PAT 2	Effective Date:
	Summary Incumbent utilizes technical expertise in the performance of complex microbiological analyses of human and/or animal body fluids or tissues and the reporting of test results to the submitting physician, veterinarian, clinic, hospital or public health agency.		

Duties

- Conducts examination of clinical specimens and/or reference samples for serological analysis or isolation and identification of micro-organisms or their antigens/nucleic acids;
- Designates work assignments to lower-level staff and serves as a specialist or section/unit technical lead worker;
- Trains staff on the performance of various laboratory analyses and evaluates, interprets and validates laboratory results and reports findings to the submitter;
- Organizes and plans identification schemes for examination of organisms not fitting regular schemes;
- Evaluates quality control checks on laboratory methods, materials and equipment;
- Coordinates the preparation of media, reagents, stains, supplies and other materials used in the transport, examination and analysis process;
- Prepares epidemiological and statistical reports from data compiled on a daily, weekly, monthly or annual basis;
- Development, preparation and updating of procedural manuals on methods, instrumentation, quality assurance, etc.;
- Participates in training programs as a planner or instructor at workshops and conferences for private and public laboratory personnel;
- Initiates special research projects designed to test and improve microbiological methods and procedures;
- Participates in testing evaluation of new products used in clinical/reference laboratory work;
- Works with local laboratories and other health department staff to ensure their use of adequate materials, techniques, methods and procedures;
- May appear at legal proceedings as an expert witness;
- Performs related work as required.

Job Requirements:

- Thorough knowledge of the principles, theories and practices of microbiology and related sub-specialties;
- Ability to meet requirements for personnel certification as a general supervisor pursuant to the Clinical Laboratory Improvement Act of 1988;
- Thorough knowledge of, and the ability to apply, accepted or unprecedented laboratory problems;
- Broad knowledge of, and ability to use, complex and specialized technical/scientific equipment and automated techniques of analysis;
- Broad knowledge of laboratory safety practices and principles;
- Specialized knowledge of state and federal laws, rules, regulations and policies concerning the program area;
- Effectively communicate, both orally and in writing;
- Ability to coordinate the work of others and provide technical guidance;
- Ability to satisfactorily participate in proficiency testing programs;
- Ability to appear in court as an expert witness;
- Ability to compile, analyze, evaluate and present laboratory data to physicians, veterinarians, public health staff and professional organizations;

Difficulty of Work:

Incumbent is engaged in scientific analysis that demands accuracy and demonstrated proficiency in applying analytical skills. Substantial judgment is required in the formulation of schemes and adaptation of guidelines for problem solving. Incumbent is also required to improve very intricate tests and to develop and evaluate new methods. Projects involve many complex variables of great intricacy and the microbiologist is often called upon to analyze and identify atypical and unusual specimens. Work also involves extensive judgment, problem-solving and organizational skills when coordinating the work of others to meet section objectives.

Responsibility:

Incumbent works independently, serving as an expert in assigned specialized microbiological area. Only administrative supervision is exercised over incumbent, with work reviewed for goal attainment. The work of the incumbent involves assignment of laboratory projects and the assurance of proper workflow. Incumbent may be required to defend analytical results during legal proceedings. Incumbent must follow established safety practices when working with materials that have a chemical hazard or biohazard potential. The work of the incumbent involves significant contributions toward the control of communicable diseases and epidemic situations.

Personal Work Relationships:

Incumbent works with supervisory staff to devise and plan work methods and with other State Board of Health or external agency staff answering questions and providing information. Incumbent has contact with employees and the public while participating in training programs as a planner or instructor. Physicians, local laboratories, clinics, health departments and the public contact the incumbent concerning the interpretation of test results and the explanation of laboratory procedures and recommendations. Incumbent may be required to provide expert testimony at legal proceedings. Incumbent may be expected to prepare and present scientific/technical information at professional meetings.

Physical Effort:**Working Conditions:**