

**CLASS TITLE: PRINCIPAL PUBLIC HEALTH
MICROBIOLOGIST**

**Class Code: 02727400
Pay Grade: 29A
EO: B**

CLASS DEFINITION:

GENERAL STATEMENT OF DUTIES: To plan, direct and coordinate a major laboratory unit within the central laboratory; to perform highly complex and demanding serological and microbiological examinations and tests for the identification, enumeration and description of bacteria or pathological conditions; and to do related work as required.

SUPERVISION RECEIVED: Work is subject to the general direction of a superior and is reviewed through consultation with the superior and by reports.

SUPERVISION EXERCISED: Plans, supervises and reviews the work of microbiologists and other laboratory staff members.

ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:

To plan, direct and coordinate a major laboratory unit within the central laboratory in the performance of standardized and complex serological and microbiological examinations and tests.

To perform highly complex and demanding serological and microbiological examinations and tests for the identification, enumeration and description of bacteria or pathological conditions.

To perform research studies on various projects.

To provide consultative services to public health personnel, physicians and independent clerical laboratory personnel.

To direct training programs related to serological and microbiological examinations and analyses.

To develop, adapt and review the validity and reliability of new procedures for making serological and microbiological examinations.

To evaluate the activities of the laboratory unit and make recommendations to superiors.

To direct and conduct quality control programs in support of laboratory evaluation and licensure programs.

To prepare and present scientific papers and lectures.

To prepare periodic and special narrative and statistical reports.

To direct and maintain literature resources.

To make recommendations regarding plans, policies and procedures of a laboratory.

To appear in court or at hearings as an expert witness.

To review all activities of a laboratory to insure conformity with laws, rules and regulations.

To do related work as required.

REQUIRED QUALIFICATIONS FOR APPOINTMENT:

KNOWLEDGES, SKILLS AND CAPACITIES: A thorough knowledge of the principles and practices of biology and microbiology; a thorough knowledge of laboratory methods and techniques used and the ability to apply such knowledge in the instruction of subordinates and to provide any training deemed necessary; the ability to apply such knowledge in the supervision and operation of a microbiological laboratory unit engaged in the performance of a wide variety of serological and microbiological tests and analyses; the ability to perform the difficult and highly complex serological and microbiological tests and analyses including the operation, effective utilization and adjustment of complicated instruments and equipment; the ability to assign, supervise and review the work of subordinate laboratory personnel; the

ability to perform research activities; the ability to analyze and interpret findings and to present conclusions and recommendations through the submission of analytical reports to superiors, the medical profession, other public health and regulatory agencies, and private and public health laboratories and clinics; and related capacities and abilities.

EDUCATION AND EXPERIENCE:

Education: Such as may have been gained through: graduation from a college of recognized standing with specialization in biology and microbiology and possession of a Master's Degree in one of the Biological Sciences; and

Experience: Such as may have been gained through: employment in a responsible supervisory capacity in a medical or public health laboratory involving the performance of technical processes of considerable complexity in serology and microbiology.

Or, any combination of education and experience that shall be substantially equivalent to the above education and experience.

Class Revised: July 2, 1978

Editorial Review: 3/15/03