

# Microbiologist

Job Code	Job Title	Pay Grade
8174C3	Microbiologist II	27
8175C3	Microbiologist III	30

## CONCEPT:

This is specialized, professional work in microbiology for a laboratory.

## TASKS

- Performs microbiological examinations on a variety of clinical specimens in order to detect the presence or absence of opportunistic or pathogenic microorganisms.
- Tests blood specimens for the presence and titer of antibodies for a number of antigenic substances.
- Performs microbiological examinations of surface and drinking water as well as sewage and industrial waste.
- Performs quality control procedures and records results in order to ensure validity of laboratory tests performed.
- Performs bacteriological and microscopic examinations of foods, milk and other dairy products.
- Prepares culture media, stains, solutions, and reagents for use in analytical procedures.
- Prepares reports of microbiological procedures performed.
- Performs microbiological examinations to aid in the diagnosis, control and treatment of infectious diseases, and reviews the results of these examinations for accuracy and reliability.
- Isolates, selects and performs tests on cultures to determine final identification and drug susceptibility results.
- Performs quality control procedures, evaluates results, and corrects out-of-range data.

## LEVELS OF WORK

- Class Group consists of two classes.

**Microbiologist II:** Incumbents at this level perform a variety of standard and advanced microbiological analyses of clinical or environmental specimens. Work requires the application of analytical procedures to determine the presence, absence or concentration of analytes, the identification of causative agents of an infectious disease, or the presence or absence of a contaminant. Duties may also include performing complex assays such as Enzyme Linked Immuno-Sorbent Assays (ELISA), Radio-Immuno Assays (RIA), electrophoresis, isoelectric focusing, biofluorescence assays, and biochemical assays, performing advanced bacteriological, serological, and microscopic examinations of clinical, industrial, and forensic specimens or samples and reviewing and releasing laboratory reports.

**Minimum Requirements:** Bachelor's degree in Microbiology, Biology or Chemistry or other related fields. Experience may be substituted for education as determined relevant by the agency.

**Microbiologist III:** Incumbents at this level have responsibility for supervising a specialized unit of a laboratory section and/or performing highly specialized microbiological laboratory tests that require special knowledge, training, and skills. Duties may include: training and supervising staff, reviewing and monitoring work, and providing technical assistance to co-workers. Assures that analyses are conducted according to prescribed methods and accepted standards of laboratory practice, conducts research to develop new or improved techniques and procedures for laboratory analyses, assesses quality of laboratory data and suggests and initiate corrective measures.

**Minimum Requirements:** Bachelor's degree in Microbiology, Biology or Chemistry or other related fields and two years of experience in microbiology. Additional experience may be substituted for education as determined relevant by the agency.

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REV: 7/14