Microbiologist

CLASS TITLE	CLASS CODE	SALARY GROUP	SALARY RANGE
MICROBIOLOGIST I	4221	B17	$42,976 - $64,469
MICROBIOLOGIST II	4222	B19	$48,244 - $76,028
MICROBIOLOGIST III	4223	B21	$54,278 - $87,046
MICROBIOLOGIST IV	4224	B23	$61,184 - $99,658
MICROBIOLOGIST V	4225	B25	$69,572 - $114,099

GENERAL DESCRIPTION

Performs microbiological work involving the conducting microscopic and serological examinations; preparing and examining tissue and culture smears; and isolating, purifying, and identifying pathogenic microorganisms.

EXAMPLES OF WORK PERFORMED

Conducts microbiological and serological examinations.

Conducts laboratory procedures.

Collects and controls specimens for analysis.

Isolates and identifies bacteria, viruses, and parasites.

Prepares and inoculates necessary media.

Prepares and standardizes diagnostic antisera, conjugates, and reagents for use in diagnostic procedures.

Maintains records.

Performs related work as assigned.

DESCRIPTION OF LEVELS

Examples of work and descriptions are meant to progress through the levels. For example, an employee at level V may also perform work listed within the previous levels.

***Note**: Factors that may distinguish between journey levels include the degree of independence in performing the work; the complexity of the work; the scope of responsibility; and the employee's related work experience, education, and certifications. Employees at the journey levels (levels I-II) may independently perform the full range of work identified within current or previous levels and may assist others performing work of greater complexity.*

MICROBIOLOGIST I: Performs routine (journey-level) microbiological work. Works under moderate supervision, with limited latitude for the use of initiative and independent judgment.

MICROBIOLOGIST II: Performs moderately complex (journey-level) microbiological work. Works under general supervision, with moderate latitude for the use of initiative and independent judgment. Employees at this level may:

- Process orders and specifications for laboratory supplies.
- Interpret the results of laboratory procedures.

***Note**: Senior-level employees (levels III-V) may serve in a lead or supervisory role; however, supervisory responsibilities within this job classification series will typically be found at levels IV and V, depending on the structure and size of the supervised workgroup. Senior-level employees may perform the full range of work identified in the levels preceding their own, and/or may coordinate and/or oversee that work for others. Factors that may distinguish between senior levels include the scope of responsibility, oversight, and authority; and the nature, complexity, scope, and impact of the work performed.*

MICROBIOLOGIST III: Performs highly complex (senior-level) microbiological work. Works under limited supervision, with considerable latitude for the use of initiative and independent judgment. Employees at this level may:

- Coordinate microbiological laboratory activities and the technical training of laboratory staff.
- Formulate and adapt methods of examination.
- Consult on special examinations and specimen collection.
- Select, interpret, and modify microbiological procedures.
- Draft and evaluate existing procedures, recommend new procedures, and facilitate their application.
- Ensure quality control of serological testing.

MICROBIOLOGIST IV: Performs advanced (senior-level) microbiological work. Works under minimal supervision, with considerable latitude for the use of initiative and independent judgment. Employees at this level may:

- Coordinate microbiological training, evaluation, and quality control programs.
- Determine appropriate specifications for diagnostic reagents and equipment.
- Prepare reports of program and examination results.

MICROBIOLOGIST V: Performs highly advanced (senior-level) microbiological work. Works under minimal supervision, with extensive latitude for the use of initiative and independent judgment. Employees at this level may:

- Consult with management regarding methods of examination, specimen assignments, and workflow.
- Manage laboratory budget, including procurement of supplies and equipment.
- Develop laboratory procedures, safety guidelines, or guidelines for laboratory assessments and/or accreditation.

GENERAL QUALIFICATION GUIDELINES

EXPERIENCE AND EDUCATION

Agencies have the discretion to identify the general or specialized experience, education, or certifications required for positions and may tailor qualification requirements to specifically meet the agency's business needs. Agencies may substitute experience, education, military service, apprenticeships, and relevant credentials for one another, if appropriate and allowed by statute.

KNOWLEDGE, SKILLS, AND ABILITIES

For all levels

- Knowledge of microbiological principles and techniques.
- Skill in the operation of microbiological laboratory equipment and in the use of a computer and applicable software.
- Ability to conduct microbiological tests, to prepare diagnostic reagents, and to communicate effectively.

Additional for Microbiologist III – V levels

- Ability to develop procedures and supervise the work of others.