# Microbiologist (19-1022.00)

#### **At-a-Glance Statistics**

#### Sample Job Titles

Bacteriologist, Clinical Laboratory Scientist, Clinical Microbiologist, Microbiological Analyst, Microbiological Laboratory Technician, Microbiologist, Microbiology Director, Microbiology Laboratory Manager, Quality Control Microbiologist (QC Microbiologist), Study Director

#### **Key Tasks**

- Isolate and maintain cultures of bacteria or other microorganisms in prescribed or developed media, controlling moisture, aeration, temperature, and nutrition.
- Study growth, structure, development, and general characteristics of bacteria and other microorganisms to understand their relationship to human, plant, and animal health.
- Examine physiological, morphological, and cultural characteristics, using microscope, to identify and classify microorganisms in human, water, and food specimens.
- Provide laboratory services for health departments, for community environmental health programs, and for physicians needing information for diagnosis and treatment.
- Investigate the relationship between organisms and disease, including the control of epidemics and the effects of antibiotics on microorganisms.
- Prepare technical reports and recommendations based upon research outcomes.
- Supervise biological technologists and technicians and other scientists.
- Monitor and perform tests on water, food, and the environment to detect harmful microorganisms or to obtain information about sources of pollution, contamination, or infection.
- Observe action of microorganisms upon living tissues of plants, higher animals, and other microorganisms, and on dead organic matter.
- Study the structure and function of human, animal, and plant tissues, cells, pathogens and toxins.

## **Education and Training**



Bachelor's Degree

48%



17%



Master's Degree

13%

## **Top Industries**



Government

Professional, Scientific, and Technical Services

## **Number Employed**



22,000 positions 2,100 job openings

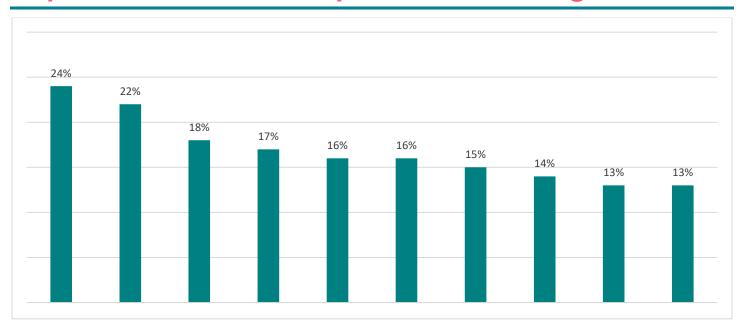
## **Median Wages**



\$34.45



## **Top Ten States for Occupational Percentage Growth**



UT AZ CO FL NE NY NC MO VA TX