



# Microbiology Job Description

**Microbiology Technician I:** Technicians should have a Bachelor's degree in Food Science, Microbiology, Biology or a related science discipline. Non-degreed candidates with extensive laboratory experience may be considered

Should be familiar with the ethics and conflict of interest and in compliance with ISO/IEC 17025, NELAC and all other accrediting / certifying agencies

Understand and practice the principles of Good Laboratory Practices including, but not limited to:

- Food and drink restrictions for the laboratory
- Aseptic technique
- Pipetting rules
- Proper hand washing procedure

Understand the flow of samples through the quantitative micro lab and be proficient at each step including:

- Weigh up
- Setting samples, including the theory and practice of serial dilutions
- Media and reagent selection
- Pouring plates
- Incubation
- Reading results-Plates, Petrifilm and MPNs
- Confirmation testing

Understand the flow of samples through the quantitative micro lab and be proficient at each step including:

- Weigh up
- Setting samples, including the theory and practice of serial dilutions
- Media and reagent selection as it pertains to the test and method applicable

Be able to use basic laboratory equipment such as:

- Pipetting device
- Darkfield colony counter
- Tally counter
- Top loading balance
- Thermometers

Laboratory safety

- Proper handling of viable bacterial and fungal cultures
- Handling of trash (biohazardous and non-biohazardous)