

Clinical Laboratory Technologists and Technicians

SOC: 29-2010 • Career Profile Report

■ Key Facts

\$61,890

Median Salary

351,200

Employment

+2.0%

Growth Rate

■ Requirements & Salary Range

Education: Bachelor's degree

■ Automation Risk Assessment

Low Risk - 8.0% probability of being automated in the next 10-20 years.

This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

■ Work-Life Balance

5.1/10 - Fair work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	5.4/10	Investigative	8.6/10
Artistic	4.8/10	Social	9.0/10
Enterprising	5.4/10	Conventional	6.2/10

■ Top Skills Required

Analytical skills, Detail oriented, Dexterity, Interpersonal skills, Physical stamina

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Clinical Laboratory Technologists and Technicians typically perform the following tasks:

- Analyze samples of biological material for chemical content or reaction.
- Analyze laboratory findings to check the accuracy of the results.
- Conduct chemical analysis of body fluids, including blood, urine, or spinal fluid, to determine presence of normal or abnormal components.
- Enter data from analysis of medical tests or clinical results into computer for storage.
- Collect and study blood samples to determine the number of cells, their morphology, or their blood group, blood type, or compatibility for transfusion purposes, using microscopic techniques.
- Set up, clean, and maintain laboratory equipment.
- Operate, calibrate, or maintain equipment used in quantitative or qualitative analysis, such as spectrophotometers, calorimeters, flame photometers, or computer-controlled analyzers.
- Establish or monitor quality assurance programs or activities to ensure the accuracy of laboratory results.
- Supervise, train, or direct lab assistants, medical and clinical laboratory technicians or technologists, or other medical laboratory workers engaged in laboratory testing.
- Select and prepare specimens and media for cell cultures, using aseptic technique and knowledge of medium components and cell requirements.
- Obtain, cut, stain, and mount biological material on slides for microscopic study and diagnosis, following standard laboratory procedures.
- Provide technical information about test results to physicians, family members, or researchers.
- Develop, standardize, evaluate, or modify procedures, techniques, or tests used in the analysis of specimens or in medical laboratory experiments.
- Cultivate, isolate, or assist in identifying microbial organisms or perform various tests on these microorganisms.
- Harvest cell cultures at optimum time, based on knowledge of cell cycle differences and culture conditions.
- Conduct blood typing and antibody screening.

*Generated by StartRight • Data from U.S. Bureau of Labor Statistics & O*NET*

Source: <https://www.bls.gov/ooh/healthcare/clinical-laboratory-technologists-and-technicians.htm>