

# Chemical Technicians

SOC: 19-4031 • Career Profile Report

## ■ Key Facts

<div>\$57,790</div> <div>Median Salary</div>	<div>57,000</div> <div>Employment</div>	<div>+4.0%</div> <div>Growth Rate</div>
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## ■ Requirements & Salary Range

Education: Associate'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

5.3/10 - Fair work-life balance

## ■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	6.2/10	Investigative	9.4/10
Artistic	5.6/10	Social	6.4/10
Enterprising	4.8/10	Conventional	6.4/10

## ■ Top Skills Required

Analytical skills, Communication skills, Detail oriented, Interpersonal skills

### ✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

### ■ Challenges

- Burnout Risk
- Rapid Technological Change

## ■ What They Do

Chemical Technicians typically perform the following tasks:

- Conduct chemical or physical laboratory tests to assist scientists in making qualitative or quantitative analyses of solids, liquids, or gaseous materials.
- Maintain, clean, or sterilize laboratory instruments or equipment.
- Monitor product quality to ensure compliance with standards and specifications.
- Set up and conduct chemical experiments, tests, and analyses, using techniques such as chromatography, spectroscopy, physical or chemical separation techniques, or microscopy.
- Prepare chemical solutions for products or processes, following standardized formulas, or create experimental formulas.
- Compile and interpret results of tests and analyses.
- Provide and maintain a safe work environment by participating in safety programs, committees, or teams and by conducting laboratory or plant safety audits.
- Provide technical support or assistance to chemists or engineers.
- Develop or conduct programs of sampling and analysis to maintain quality standards of raw materials, chemical intermediates, or products.
- Train new employees on topics such as the proper operation of laboratory equipment.
- Write technical reports or prepare graphs or charts to document experimental results.
- Order and inventory materials to maintain supplies.
- Operate experimental pilot plants, assisting with experimental design.
- Direct or monitor other workers producing chemical products.
- Design or fabricate experimental apparatus to develop new products or processes.
- Develop new chemical engineering processes or production techniques.

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Source: <https://www.bls.gov/ooh/life-physical-and-social-science/chemical-technicians.htm>