

Occupation Profile

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Chemical Technicians
(SOC Code : 19-4031)
in San Diego County

Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for purposes, such as research and development of new products or processes, quality control, maintenance of environmental standards, and other work involving experimental, theoretical, or practical application of chemistry and related sciences.

Employers are usually looking for candidates with a Associate degree .

San Diego County is the same as San Diego-Carlsbad MSA.

Occupational Wages

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Area	Year	Period	Hourly Mean	Hourly by Percentile		
				25th	Median	75th
San Diego-Carlsbad MSA	2020	1st Qtr	\$23.28	\$17.68	\$21.86	\$27.18

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Occupational Projections of Employment (also called "Outlook" or "Demand")

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Area	Estimated Year-Projected Year	Employment		Employment Change		Annual Avg Openings
		Estimated	Projected	Number	Percent	
San Diego County	2016 - 2026	780	880	100	12.8	86

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Job Openings from JobCentral National Labor Exchange

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Within miles of Zip Code.

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Industries Employing This Occupation (click on Industry Title to View Employers List)

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Industry Title	Number of Employers in San Diego County	Percent of Total Employment for Occupation in State of California	
		Number	Percent
Architectural and Engineering Services	1,816		34.4%
Scientific Research and Development Svc	940		15.3%
Pharmaceutical & Medicine Manufacturing	105		10.0%

Petroleum & Coal Products	28	4.4%
Manufacturing		
Employment Services	425	2.4%
Colleges and Universities	136	1.9%

About Staffing Patterns

Training Programs (click on title for more information) [\[Top\]](#)

Program Title

[Chemical Technology/Technician](#)

About Training & Apprenticeships

About This Occupation (from O*NET - The Occupation Information Network) [\[Top\]](#)

Top Tasks (Specific duties and responsibilities of this job.)

Monitor product quality to ensure compliance with standards and specifications.

Compile and interpret results of tests and analyses.

Set up and conduct chemical experiments, tests, and analyses, using techniques such as chromatography, spectroscopy, physical or chemical separation techniques, or microscopy.

Conduct chemical or physical laboratory tests to assist scientists in making qualitative or quantitative analyses of solids, liquids, or gaseous materials.

Provide and maintain a safe work environment by participating in safety programs, committees, or teams and by conducting laboratory or plant safety audits.

Prepare chemical solutions for products or processes, following standardized formulas, or create experimental formulas.

Maintain, clean, or sterilize laboratory instruments or equipment.

Write technical reports or prepare graphs or charts to document experimental results.

Provide technical support or assistance to chemists or engineers.

Train new employees on topics such as the proper operation of laboratory equipment.

[More Tasks for Chemical Technicians](#)

Top Skills used in this Job

Science - Using scientific rules and methods to solve problems.

Reading Comprehension - Understanding written sentences and paragraphs in work related documents.

Critical Thinking - Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.

Monitoring - Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.

Writing - Communicating effectively in writing as appropriate for the needs of the audience.

Active Listening - Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Quality Control Analysis - Conducting tests and inspections of products, services, or processes to evaluate quality or performance.

Time Management - Managing one`s own time and the time of others.

Complex Problem Solving - Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

Speaking - Talking to others to convey information effectively.

[More Skills for Chemical Technicians](#)

Top Abilities (Attributes of the person that influence performance in this job.)

Oral Comprehension - The ability to listen to and understand information and ideas presented through spoken words and sentences.

Written Comprehension - The ability to read and understand information and ideas presented in writing.

Information Ordering - The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).

[More Abilities for Chemical Technicians](#)

Top Work Values (Aspects of this job that create satisfaction.)

Support - Occupations that satisfy this work value offer supportive management that stands behind employees.

Relationships - Occupations that satisfy this work value allow employees to provide service to others and work with co-workers in a friendly non-competitive environment.

[More WorkValues for Chemical Technicians](#)

Top Interests (The types of activities someone in this job would like.)

Investigative - Investigative occupations frequently involve working with ideas, and require an extensive amount of thinking. These occupations can involve searching for facts and figuring out problems mentally.

Realistic - Realistic occupations frequently involve work activities that include practical, hands-on problems and solutions. They often deal with plants, animals, and real-world materials like wood, tools, and machinery. Many of the occupations require working outside, and do not involve a lot of paperwork or working closely with others.

[More Interests for Chemical Technicians](#)

Alternate Titles

Analytical Lab Technicians; Analytical Technicians; Environmental Lab Technicians; Formulation Technicians; Laboratory Analysts; Laboratory Technicians; Laboratory Testers; Research and Development Technicians; Research Technicians

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