CHEMICAL LABORATORY TECHNOLOGY, ASSOCIATE IN APPLIED SCIENCE



College(s): TR

Program Code: 0137

The Associate in Applied Science degree program for Chemical Laboratory Technology focuses on the study of the development, production and utilization of industrial chemicals, and methods used in modern chemical laboratories. The program can lead to employment as a chemical lab technician (working under supervision of senior technicians), engineer, or scientist in production or testing, as well as in commercial utilization of chemicals and chemical products.

Program Requirements

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	Code	Title	Hours
	General Education	n Coursework	
	ENGLISH 101	Composition	3
	MATH 140	College Algebra	4
	Fine Arts & Huma	nities course	3
	Social and Behavi	ioral Sciences course	3
	General Education	n Human Diversity course	3
	Required Program	n Core	
	CHEM 201	General Chemistry I	5
	CHEM 203	General Chemistry II	5
	CHEM 205	Organic Chemistry I	6
	CHEM 207	Organic Chemistry II	6
	CHEM 217	Intro Instrumental Analysis	4

MATH 207	Calculus & Analytic Geometry I	5
Program Elective	s	
Select a minimum	n of 16 credit hours of the following:	16
CIS 120	Introduction to Computer Applications	
MATH 141	Plane Trigonometry	
MATH 208	Calculus & Analytic Geometry II	
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	
Total Hours		63

Careers

This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional guidance and resources on career options, current City Colleges students and alumni can contact the Career Services Office (https://www.ccc.edu/departments/Pages/Career-Services.aspx).

Chemical Technicians Job Description

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



Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardousduty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages

Entry-Level 10 th Percentile	\$42,923
Median 50 th Percentile	\$63,590
Senior-Level 90 th Percentile	\$106.144

Hourly Wages

Entry-Level 10 th Percentile	\$21
Median 50 th Percentile	\$31
Senior-Level 90 th Percentile	\$51

Annual Job Openings

52 annual openings in Cook County

National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	33.34%
A certificate	0.00%
Some college	22.42%
An Associate degree	0.50%
A Bachelor's degree	43.74%
A Master's or Professional degree	0.00%
A Doctoral degree or more	0.00%

43.74% continue their education beyond an associate degree

Chemical Equipment Operators and Tenders

Job Description

Operate or tend equipment to control chemical changes or reactions in the processing of industrial or consumer products. Equipment used includes devulcanizers, steam-jacketed kettles, and reactor vessels.

Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardousduty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual	Wages
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Entry-Level 10 Percentile	\$38,088
Median 50 th Percentile	\$58,139
Senior-Level 90 th Percentile	\$74,435

Hourly Wages

Entry-Level 10 th Percentile	\$18
Median 50 th Percentile	\$28
Senior-Level 90 th Percentile	\$36

Annual Job Openings

69 annual openings in Cook County

National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	50.59%
A certificate	13.50%
Some college	20.64%
An Associate degree	13.50%
A Bachelor's degree	1.77%
A Master's or Professional degree	0.00%
A Doctoral degree or more	0.00%

1.77% continue their education beyond an associate degree

Chemical Plant and System Operators Job Description

Control or operate entire chemical processes or system of machines.

Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardousduty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages

Entry-Level 10 th Percentile	\$55,460
Median 50 th Percentile	\$59,048
Senior-Level 90 th Percentile	\$67,546

Hourly Wages

Entry-Level 10 th Percentile	\$27
Median 50 th Percentile	\$28
Senior-Level 90 th Percentile	\$32

Annual Job Openings

6 annual openings in Cook County



National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	61.53%
A certificate	0.97%
Some college	0.51%
An Associate degree	0.21%
A Bachelor's degree	36.27%
A Master's or Professional degree	0.30%
A Doctoral degree or more	0.21%

36.78% continue their education beyond an associate degree