

# Occupational Profile: Medical & Clinical Laboratory Technologists

## GENERAL OCCUPATION DESCRIPTION

Perform complex medical laboratory tests for diagnosis, treatment, and prevention of disease. May train or supervise staff.

Source: O\*NET online. <http://online.onetcenter.org>

## REQUIRED EDUCATION

As shown in the table to right, 22% of interviewed employers reportedly require a two-year degree or the equivalent, while an additional 72% require a four-year degree or more.

Required Education	
Percent of Employers Requiring HS Diploma or Less	6.08%
Percent of Employers Requiring 2-Year Degree or Equiv	21.9%
Percent of Employers Requiring BS Diploma or More	72.03%

Source: Bureau of Labor Statistics

## WAGES

Medical & Clinical Laboratory Technologist is considered a high-wage occupation, with moderate possibility for wage advancement with experience. Employers in Greater Phoenix and the State of Arizona generally pay comparably as compared with the overall United States.

Location	Pay Period	2005				
		10%	25%	Median	75%	90%
United States	Hourly	\$16.09	\$19.23	\$22.94	\$26.94	\$31.98
	Yearly	\$33,500	\$40,000	\$47,700	\$56,000	\$66,500
Greater Phoenix	Hourly	\$13.49	\$17.58	\$22.05	\$27.00	\$32.28
	Yearly	\$28,073	\$36,584	\$45,886	\$56,187	\$67,175
Arizona	Hourly	\$13.90	\$18.22	\$22.94	\$26.87	\$32.48
	Yearly	\$28,900	\$37,900	\$47,700	\$55,900	\$67,600

Source: Bureau of Labor Statistics

As shown in the table to right, a national comparison of wages for this occupation reveals Arizona ranks 17<sup>th</sup> in terms of median wages.

RANK	Location	Median Wage 2005	
		Hourly	Annual
1	California	\$31.14	\$64,800
2	Alaska	\$28.19	\$58,600
3	Rhode Island	\$26.20	\$54,500
4	Connecticut	\$26.13	\$54,400
5	New Jersey	\$25.69	\$53,400
17	ARIZONA	\$22.94	\$47,700

Source: Bureau of Labor Statistics

The table below provides a comparison of wages by sub-industry for the Greater Phoenix region (2005). As shown, the main employment sector, "Hospitals" pays more than the other main employment sector "Ambulatory Health Care Services."

Wages by Industry: Greater Phoenix MSA (2005)	Rounded Employment	Mean Wage	10th Percentile Wage	25th Percentile Wage	Median Wage	75th Percentile Wage	90th Percentile Wage
Hospitals	710	\$22.83	\$14.47	\$19.08	\$23.67	\$26.54	\$30.21
Ambulatory Health Care Services	.	\$22.76	\$12.51	\$16.07	\$20.42	\$27.46	\$34.35

## EMPLOYMENT

As shown in the table below, this occupation has a projected 38% growth rate over 10 years (between 2003 and 2013) for the Greater Phoenix region. There are an average projected 77 job openings each year, comprised of 45 new jobs and 32 positions vacated by individuals leaving the field (due to retirement, death, career changes, or other reasons).

	10-YEAR CHANGE			AVERAGE ANNUAL		
	Employment		Percent Change	Job Openings	Growth	Separations
	2004	2014				
<b>United States</b>						
Medical and clinical laboratory technologists	155,800	187,800	21%	7,400	n/a	n/a
<b>Arizona</b>						
Medical and clinical laboratory technologists	1,880	2,670	42%	130	n/a	n/a
<b>Greater Phoenix</b>						
Medical and clinical laboratory technologists	1,196	1,648	38%	77	45	32

Source: Bureau of Labor Statistics

\*Job Openings refers to the average annual job openings due to growth and net replacement.

Source: Bureau of Labor Statistics

\*\*N/A is displayed in cases where data is not available or cannot be published because of federal data privacy standards.

An additional source of information regarding this occupation can be provided by analysis of employer survey data collected for the Maricopa County Community Colleges by the ERISS Corporation in 2004. As shown, the ERISS survey data shows a projected 1-year growth rate of 11%, which is higher than the average of 3.8% per year reflected by the BLS data above.

Additionally, the ERISS data provides an indicator of yearly turnover for this occupation, which is reported to be moderate at 9%.

ERISS Occupational Survey Data (2004)			
Greater Phoenix	Growth	Turnover	Demand
Medical & Clinical Laboratory Technologists	11%	9%	20%

## Comparison of employment projections for top five regions for Medical & Clinical Laboratory Technologist

As shown in the table to right, a national comparison reveals the State of Arizona ranks 3<sup>rd</sup> in terms of projected 10-year growth for this occupation (42%).

RANK	Location	Employment		Percent Change
		2004	2014	
1	Nevada	780	1,240	59%
2	Utah	1,440	2,080	44%
3	<b>ARIZONA</b>	1,880	2,670	42%
4	Colorado	2,300	3,200	39%
5	Idaho	340	460	35%

Source: Bureau of Labor Statistics

## Employment by Industry

The table below shows the industries that most commonly employ Medical & Clinical Laboratory Technologist, and the proportion of employment accounted for at the national level. As shown, "General medical and surgical hospitals, private" is the largest employer for this occupation (50%).

Percent of Employment Nationally by Industry	
Percent	Industry
50%	General medical and surgical hospitals, private
31.2%	Medical and diagnostic laboratories
9.3%	Offices of physicians
7.7%	Local government hospitals
3.4%	Federal Government, excluding Postal Service
2.6%	State government hospitals
2.1%	All other ambulatory health care services

Source: Bureau of Labor Statistics

### Geo-Location Overlay of Employers with 25 or More Employees that Potentially Employ Occupation (n = 184)

