

# Occupational Profile: Electrical and Electronics Repairers, Commercial and Industrial Equipment

## GENERAL OCCUPATION DESCRIPTION

Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas. Exclude "Avionics Technicians", "Electronic Equipment Installers and Repairers, Motor Vehicles", and "Electrical and Electronics Installers and Repairers, Transportation Equipment".

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

## REQUIRED EDUCATION

As shown in the table to right, over 36% of interviewed employers reportedly required a high school diploma or less for this occupation. A further 63.6% reportedly required a 2-year degree or equivalent.

Required Education	
Percent of Employers Requiring HS Diploma or Less	36.4%
Percent of Employers Requiring 2-Year Degree or Equiv	63.6%
Percent of Employers Requiring BS Diploma or More	0%

Source: Bureau of Labor Statistics

## WAGES

Electrical and Electronics Repairer, Commercial and Industrial Equipment is generally considered a medium to high-wage occupation, with good possibility for wage advancement with experience.

Employers in the Greater Phoenix region generally pay less as compared with the overall United States and the State of Arizona as a whole.

Location	Pay Period	2005				
		10%	25%	Median	75%	90%
United States	Hourly	\$13.12	\$16.64	\$21.21	\$25.80	\$30.11
	Yearly	\$27,300	\$34,600	\$44,100	\$53,700	\$62,600
Greater Phoenix	Hourly	\$8.13	\$14.51	\$16.20	\$19.48	\$24.24
	Yearly	\$16,919	\$30,195	\$33,712	\$40,538	\$50,443
Arizona	Hourly	\$14.84	\$18.02	\$23.61	\$26.68	\$31.06
	Yearly	\$30,900	\$37,500	\$49,100	\$55,500	\$64,600

Source: Bureau of Labor Statistics

As shown in the table to right, a national comparison of wages for this occupation reveals Arizona ranks 8th in terms of median wages.

RANK	Location	Median Wage 2005	
		Hourly	Annual
1	District of Columbia	\$34.61	\$72,000
2	Alaska	\$29.20	\$60,700
3	Hawaii	\$25.62	\$53,300
4	New Mexico	\$24.98	\$52,000
5	Washington	\$24.58	\$51,100
8	ARIZONA	\$23.61	\$49,100

Source: Bureau of Labor Statistics

The table below provides a comparison of wages by sub-industry for the Greater Phoenix region (2005). As shown, wage information was only available for one manufacturing sector, "Computer and Electronic Product Manufacturing."

Wages by Industry: Greater Phoenix (2005)	Rounded Employment	Mean Wage	10th Percentile Wage	25th Percentile Wage	Median Wage	75th Percentile Wage	90th Percentile Wage
Computer and Electronic Product Manufacturing	N/A	\$16.48	\$8.13	\$14.51	\$16.20	\$19.48	\$24.24

Source: Bureau of Labor Statistics

## EMPLOYMENT

As shown in the table below, this occupation has a projected 16% growth rate over 10 years (between 2003 and 2013) for the Greater Phoenix region. There are an average projected 71 job openings each year, comprised of 30 new jobs and 41 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
United States	2004	2014				
Electrical and electronics repairers, commercial and industrial equipment	72,400	79,400	10%	2,290	n/a	n/a
Arizona	Employment		Percent Change	Job Openings	Growth	Separations
	2002	2012				
Electrical and electronics repairers, commercial and industrial equipment	1,210	1,560	30%	60	n/a	n/a
Greater Phoenix	Employment		Percent Change	Job Openings	Growth	Separations
	2003	2013				
Electrical and electronics repairers, commercial and industrial equipment	1,846	2,149	16%	71	30	41

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.

[ERISS occupational survey data unavailable for this occupation]

### Comparison of employment projections for top five regions for Electrical and Electronics Repairer, Commercial and Industrial Equipment

As shown in the table to right, a national comparison reveals the State of Arizona ranks 3rd in terms of projected 10-year growth for this occupation (30%).

RANK	Location	Employment		Percent Change
		2004	2014	
1	Wyoming	190	250	33%
2	Colorado	1,340	1,770	32%
3	<b>ARIZONA</b>	1,210	1,560	30%
4	Nevada	90	120	29%
5	Utah	910	1,130	25%

Source: Bureau of Labor Statistics

### Employment by Industry

The table below shows the industries that most commonly employ Electrical and Electronics Repairer, Commercial and Industrial Equipment, and the proportion of employment accounted for at the national level. As shown, the Federal Government is the largest employer for this occupation.

Percent of Employment Nationally by Industry	
Percent	Industry
8.4%	Federal Government, excluding Postal Service
6.9%	Electrical contractor
5.5%	Electronic and precision equipment repair and maintenance
5.3%	Electrical and electronic goods merchant wholesalers
4.8%	Navigational, measuring, electromedical, and control instruments
3.5%	Aerospace product and parts manufacturing
3%	Semiconductor and other electronic component manufacturing
2.7%	Commercial and industrial machinery and equipment (except automotive and electrical)
2.4%	Basic chemical manufacturing
2%	Resin, synthetic rubber, and artificial synthetic fibers and filaments

Source: Bureau of Labor Statistics

## Geo-Location Overlay of Employers with 25 or More Employees that Potentially Employ Occupation (n = 67)

