

Occupational Profile: Database Administrators

GENERAL OCCUPATION DESCRIPTION

Coordinate changes to computer databases, test and implement the database applying knowledge of database management systems. May plan, coordinate, and implement security measures to safeguard computer databases.

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

REQUIRED EDUCATION

As shown in the table to right, 45% of interviewed employers reportedly required a two-year degree or the equivalent, and an additional 52% required a four-year college degree or more.

| Required Education | |
|---|--------|
| Percent of Employers Requiring HS Diploma or Less | 3.38% |
| Percent of Employers Requiring 2-Year Degree or Equiv | 44.63% |
| Percent of Employers Requiring BS Diploma or More | 51.99% |

Source: Bureau of Labor Statistics

WAGES

Database Administrator is considered a high-wage occupation, with excellent possibility for wage advancement with experience. Employers in Greater Phoenix and the State of Arizona generally pay less as compared with the overall United States.

| Location | Pay Period | 2005 | | | | |
|-----------------|------------|----------|----------|----------|----------|-----------|
| | | 10% | 25% | Median | 75% | 90% |
| United States | Hourly | \$17.02 | \$22.56 | \$30.41 | \$39.92 | \$48.52 |
| | Yearly | \$35,400 | \$46,900 | \$63,300 | \$83,000 | \$100,900 |
| Greater Phoenix | Hourly | \$17.48 | \$20.28 | \$25.68 | \$31.30 | \$39.02 |
| | Yearly | \$36,376 | \$42,203 | \$53,440 | \$65,135 | \$81,201 |
| Arizona | Hourly | \$15.21 | \$19.32 | \$27.66 | \$35.48 | \$42.59 |
| | Yearly | \$31,600 | \$40,200 | \$57,500 | \$73,800 | \$88,600 |

Source: Bureau of Labor Statistics

As shown in the table to right, a national comparison of wages for this occupation reveals Arizona ranks 28th in terms of median wages.

| RANK | Location | Median Wage 2005 | |
|------|-------------|------------------|----------|
| | | Hourly | Annual |
| 1 | Virginia | \$35.14 | \$73,100 |
| 2 | Washington | \$34.72 | \$72,200 |
| 3 | Connecticut | \$34.50 | \$71,800 |
| 4 | California | \$34.16 | \$71,100 |
| 5 | New York | \$33.88 | \$70,500 |
| 28 | ARIZONA | \$27.66 | \$57,500 |

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, "Credit Intermediation and Related Activities," pays slightly less on average than the other two main employment sectors.

| 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 |
|---|--------------------|-----------|----------------------|----------------------|-------------|----------------------|----------------------|
| Credit Intermediation and Related Activities | 150 | \$29.61 | \$19.64 | \$23.00 | \$26.25 | \$36.50 | \$46.60 |
| Professional, Scientific, and Technical Services | 130 | \$33.02 | \$18.80 | \$21.28 | \$34.59 | \$42.10 | \$49.35 |
| Computer and Electronic Product Manufacturing | 90 | \$32.93 | \$22.06 | \$28.41 | \$32.77 | \$38.68 | \$44.74 |
| Telecommunications | 60 | \$24.62 | \$17.79 | \$19.69 | \$23.25 | \$28.05 | \$34.46 |
| Insurance Carriers and Related Activities | 50 | \$28.73 | \$14.51 | \$17.80 | \$30.19 | \$35.09 | \$43.21 |
| Public Administration | 40 | \$28.09 | \$19.51 | \$23.39 | \$27.40 | \$33.04 | \$39.12 |
| Educational Services | 40 | \$25.48 | \$19.14 | \$22.00 | \$25.10 | \$28.78 | \$33.15 |
| Securities, Commodity Contracts, and Other Financial Investments and Related Activities | . | \$23.17 | \$14.42 | \$15.80 | \$21.66 | \$27.69 | \$36.15 |
| Religious, Grantmaking, Civic, Professional, and Similar Organizations | . | \$20.04 | \$14.79 | \$16.28 | \$18.93 | \$21.54 | \$29.39 |
| Administrative and Support Services | . | \$20.29 | \$14.15 | \$15.10 | \$16.69 | \$21.49 | \$33.99 |

EMPLOYMENT

As shown in the table below, this occupation has a projected 40% growth rate over 10 years (between 2003 and 2013) for the Greater Phoenix region. There are an average projected 59 job openings each year, comprised of 47 new jobs and 12 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 | | | | |
| United States | | | | | | |
| Database administrators | 104,400 | 144,300 | 38% | 5,070 | n/a | n/a |
| Arizona | | | | | | |
| Database administrators | 2,080 | 2,990 | 44% | 110 | n/a | n/a |
| Greater Phoenix | | | | | | |
| Database administrators | 1,179 | 1,652 | 40% | 59 | 47 | 12 |

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 1%, which is lower than the average of 4% 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 very low at 1%.

| ERISS Occupational Survey Data (2004) | | | |
|---------------------------------------|--------|----------|--------|
| Greater Phoenix | Growth | Turnover | Demand |
| Database Administrators | 1% | 1% | 2% |

Comparison of employment projections for top five regions for Database Administrator

As shown in the table to right, a national comparison reveals the State of Arizona ranks 8th in terms of projected 10-year growth for this occupation (50%).

| RANK | Location | Employment | | Percent Change |
|------|-----------|------------|-------|----------------|
| | | 2004 | 2014 | |
| 1 | Nevada | 260 | 440 | 70% |
| 2 | Utah | 620 | 1,010 | 64% |
| 3 | Arkansas | 1,110 | 1,810 | 63% |
| 4 | Colorado | 2,700 | 4,370 | 62% |
| 5 | Tennessee | 1,450 | 2,180 | 50% |
| 8 | ARIZONA | 2,080 | 2,990 | 44% |

Employment by Industry

The table below shows the industries that most commonly employ Database Administrator, and the proportion of employment accounted for at the national level. As shown, "Computer systems design and related services" is the largest employer for this occupation (12.9%).

| Percent of Employment Nationally by Industry | |
|--|--|
| Percent | Industry |
| 12.9% | Computer systems design and related services |
| 7.3% | Management of companies and enterprises |
| 3.3% | Local government, excluding education and hospitals |
| 2.9% | Colleges, universities, and professional schools, private |
| 2.9% | Direct life, health, and medical insurance carriers and reinsurance carriers |
| 2.8% | Federal Government, excluding Postal Service |
| 2.6% | Depository credit intermediation |

Source: Bureau of Labor Statistics

