



ACTUARY

Analyze statistical data, such as mortality, accident, sickness, disability, and retirement rates and construct probability tables to forecast risk and liability for payment of future benefits. May ascertain premium rates required and cash reserves necessary to ensure payment of future benefits.

Knowledge and Skills Needed for this Career

In addition to courses required for high school graduation, essential skills and knowledge needed for a career as an actuary are reinforced by taking rigorous and relevant courses, as well as participating in work-based experiences and student organization activities.

(See the Sample Personal Plan of Study for suggested coursework, activities, and knowledge and skills to pursue in preparation of an occupation in this Career Cluster.)

Education Requirements

Occupation	Percent of Missouri employees aged 25 to 44 in the occupation whose highest level of educational attainment is:		
	High School or Less	Some College	Bachelor Degree or More
Actuaries	0.0%	0.0%	98.9%
Mathematical Science Occupations	1.1%	7.9%	91.0%
Computer and Mathematical	4.5%	19.6%	75.9%

Most Common Educational/Training Level: Bachelor's or higher degree, plus work experience
Apprenticeships are available for more than 240 occupations. Visit www.oa.doleta.gov/bat.cfm
Note: Be sure to learn whether your occupation has a specific requirement for education or licensing.

National and State Wage Information

Location	Pay Period	2007		
		Entry*	Median	Experienced**
United States	Hourly	\$29.80	\$41.20	\$57.60
	Yearly	\$62,000	\$85,700	\$119,800
Missouri	Hourly	\$28.77	\$48.82	\$70.01+
	Yearly	\$59,800	\$101,500	\$145,600+

Based on (*) lower 25% and (**) upper 25% percentile of wages

National and State Employment Trends

Actuary	Employment		Percent Change	Job Openings*
	2006	2016		
United States	18,100	22,400	+ 24%	1,090
Missouri	480	570	+ 18%	30

*The estimate for Job Openings includes both turnover that results from people who leave the occupation (e.g. quit, retire, death) and new jobs that are created.

Educational Opportunities

Note: This list may not be all inclusive. For more information about Missouri schools and programs, visit www.dhe.mo.gov

Lindenwood University
Saint Charles, MO
(636) 949-2000
www.lindenwood.edu

Maryville University of Saint Louis
Saint Louis, MO
(800) 627-9855
www.maryville.edu

University of Central Missouri
Warrensburg, MO
(660) 543-4111
www.ucmo.edu



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