



CAREER PATH

Industrial & Engineering Technology

CAREER CLUSTER
Manufacturing

CAREER PATHWAY

Health, Safety and Environmental Assurance



HEALTH AND SAFETY ENGINEER

Promote worksite or product safety by applying knowledge of industrial processes, mechanics, chemistry, psychology, and industrial health and safety laws.

Knowledge and Skills Needed

In addition to courses required for high school graduation, essential skills and knowledge needed for a career as a safety engineer 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
Health and safety engineers	7.6%	18.5%	73.9%
Engineers	2.5%	16.1%	81.4%
Architecture and engineering	10.3%	31.0%	58.6%

Most Common Educational Level: Bachelor's degree

Note: Be sure to learn whether your occupation has a specific requirement for education or licensing. Apprenticeships are available for more than 240 occupations. Visit www.oa.doleta.gov/bat.cfm

National and State Wage Information

Location	Pay Period	2007		
		Entry*	Median	Experienced**
United States	Hourly	\$26.10	\$33.45	\$41.66
	Yearly	\$54,300	\$69,600	\$86,700
Missouri	Hourly	\$24.04	\$32.27	\$39.43
	Yearly	\$50,000	\$67,100	\$82,000

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

National and State Employment Trends

Safety Engineers	Employment		Percent Change	Job Openings*
	2006	2016		
United States	25,400	27,800	+ 10%	860
Missouri	380	410	+ 9%	10

*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

Missouri University of Science and Technology

Rolla, MO
(573) 341-4111
www.mst.edu

Washington University in St Louis

Saint Louis, MO
(314) 935-5000
www.wustl.edu



www.missouriconnections.org

**MISSOURI DEPARTMENT OF
ELEMENTARY AND SECONDARY
EDUCATION**



www.dese.mo.gov

**MISSOURI DEPARTMENT
OF HIGHER EDUCATION**



*Building Missouri's future...
by degrees*

www.dhe.mo.gov

**MISSOURI DEPARTMENT
OF ECONOMIC DEVELOPMENT**



www.missouricareersource.com



www.missourieconomy.org
