



# CAREER PATH Industrial & Engineering Technology

CAREER CLUSTER  
Transportation, Distribution and Logistics

CAREER PATHWAY  
Health, Safety and Environmental Management



## INDUSTRIAL HEALTH & SAFETY ENGINEER

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

### Knowledge and Skills Needed

In addition to courses required for high school graduation, essential skills and knowledge needed for a career as an industrial health and 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, except mining safety engineers and inspectors	7.6%	18.5%	73.9%
Engineers	2.5%	16.1%	81.4%
Architecture and engineering	10.3%	31%	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.oe.doleta.gov/bat.cfm](http://www.oe.doleta.gov/bat.cfm)

### National and State Wage Information

Location	Pay Period	2006		
		Entry*	Median	Experienced**
United States	Hourly	\$24.82	\$31.87	\$40.02
	Yearly	\$51,600	\$66,300	\$83,200
Missouri	Hourly	\$22.73	\$29.82	\$36.98
	Yearly	\$47,300	\$62,000	\$76,900

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

### National and State Employment Trends

Industrial Engineer	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](http://www.dhe.mo.gov)*

#### Missouri University of Science and Technology

Rolla, MO  
(573) 341-4111  
[www.mst.edu](http://www.mst.edu)

#### Washington University

St. Louis, MO  
(314) 935-5000  
[www.wustl.edu](http://www.wustl.edu)



[www.missouriconnections.org](http://www.missouriconnections.org)

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