



CAREER PATH

Natural Resources Agriculture

CAREER CLUSTER

Agriculture, Food and Natural Resources

CAREER PATHWAY

Natural Resources and Environmental Service Systems



CARTOGRAPHER & PHOTOGRAMMETRIST

Collect, analyze, and interpret geographic information provided by geodetic surveys, aerial photographs, and satellite data. Research, study, and prepare maps and other spatial data in digital or graphic form for legal, social, political, educational, and design purposes. May work with Geographic Information Systems (GIS). May design and evaluate algorithms, data structures, and user interfaces for GIS and mapping systems.

Knowledge and Skills Needed

In addition to courses required for high school graduation, essential skills and knowledge needed for a career as a cartographer or photogrammetrist 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
Cartographers & photogrammetrists	0.0%	17.8%	81.6%
Architects, surveyors, & cartographers	0.8%	14.0%	85.2%
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	\$18.83	\$24.02	\$32.04
	Yearly	\$39,200	\$50,000	\$66,600
Missouri	Hourly	\$17.51	\$22.00	\$29.20
	Yearly	\$36,400	\$45,800	\$60,700

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

National and State Employment Trends

Cartographer & Photogrammetrist	Employment		Percent Change	Job Openings*
	2006	2016		
United States	12,200	14,700	+ 20%	620
Missouri	570	610	+ 7%	20

*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 State University

Springfield, MO
(417) 836-5000
Site www.missouristate.edu

Three Rivers Community College

Poplar Bluff, MO
(573) 840-9600
Site www.trcc.edu



**MISSOURI DEPARTMENT OF
ELEMENTARY AND SECONDARY
EDUCATION**



www.dese.mo.gov

**MISSOURI DEPARTMENT
OF HIGHER EDUCATION**



**MISSOURI DEPARTMENT
OF ECONOMIC DEVELOPMENT**



www.missouricareersource.com



www.missourieconomy.org
