Cartographers and Photogrammetrists

SOC: 17-1021 • Career Profile Report

■ Key Facts

\$78,380Median Salary

13,400 Employment

+6.0%
Growth Rate

■ Requirements & Salary Range

Education: Bachelor's degree

■ Automation Risk Assessment

Low Risk - 17.0% probability of being automated in the next 10-20 years.

This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

■■ Work-Life Balance

8.6/10 - Excellent work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	8.2/10	Investigative	8.8/10	
Artistic	6.4/10	Social	5.2/10	
Enterprising	5.8/10	Conventional	6.6/10	

■ Top Skills Required

Communication skills, Computer skills, Critical-thinking skills, Detail oriented, Problem-solving skills

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Cartographers and Photogrammetrists typically perform the following tasks: • Compile data required for map preparation, including aerial photographs, survey notes, records, reports, and original maps. • Delineate aerial photographic detail, such as control points, hydrography, topography, and cultural features, using precision stereoplotting apparatus or drafting instruments. • Prepare and alter trace maps, charts, tables, detailed drawings, and three-dimensional optical models of terrain using stereoscopic plotting and computer graphics equipment. • Study legal records to establish boundaries of local, national, and international properties. • Inspect final compositions to ensure completeness and accuracy. • Revise existing maps and charts, making all necessary corrections and adjustments. • Identify, scale, and orient geodetic points, elevations, and other planimetric or topographic features, applying standard mathematical formulas. • Collect information about specific features of the Earth, using aerial photography and other digital remote sensing techniques. • Examine and analyze data from ground surveys, reports, aerial photographs, and satellite images to prepare topographic maps, aerial-photograph mosaics, and related charts. • Build and update digital databases. • Determine map content and layout, as well as production specifications such as scale, size, projection, and colors, and direct production to ensure that specifications are followed. • Determine guidelines that specify which source material is acceptable for use. • Select aerial photographic and remote sensing techniques and plotting equipment needed to meet required standards of accuracy. • Travel over photographed areas to observe, identify, record, and verify all relevant features. • Estimate resources, such as production hours, required for projects. • Use drone technology to capture high-resolution images and data for map creation and updating.

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Source: https://www.bls.gov/ooh/architecture-and-engineering/cartographers-and-photogrammetrists.htm