



USDOL information and resources to support Geospatial workforce development

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USDOL/Employment and Training
Administration

USDOL information and resources to support Geospatial workforce development

- Geospatial Technology competency model on the **Competency Model Clearinghouse**
- Four (4) new **O*NET occupations** with full descriptions
- Discretionary **grants to support curriculum development**



Competency Model Clearinghouse



Lost your job?	mySkills myFuture Veterans ReEmployment Worker ReEmployment
For businesses	Business Center

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Competency Model

Industry competency models promote an understanding of the skill sets and competencies that are essential to educate and train a globally competitive workforce.

Sponsored by the [U.S. Department of Labor](#), the Competency Model Clearinghouse provides validated industry competency models and [tools](#) to build a custom model and career ladder/lattice for your ...

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45

user guides

[User Guides](#)
[Technical Assistance Guide](#)
[Competency Models: A Review of the Literature and the Role of the Employment and Training Administration \(ETA\)](#)

find resources

Search for existing competency models, skill standards, technical curriculum, certifications, and other resources.

Quick Search

- ### Industry Competency Models
- Advanced Manufacturing
 - Aerospace
 - Automation
 - Bioscience
 - Construction - Commercial
 - Construction - Heavy
 - Construction - Residential
 - Cybersecurity
 - Energy
 - Entrepreneurship
 - Financial Services
 - [Geospatial Technology](#)

Tools

- Build a Competency Model
- Build a Career Ladder/Lattice

Geospatial Technology Competency Model

features



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exploring industries

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- [Health: Electronic Health Records](#)
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- [Long-term Care, Supports, and Services](#)
- [Mechatronics](#)
- [Renewable Energy](#)
- [Retail](#)
- [Transportation, Distribution, and Logistics](#)
- [Water Sector](#)

related links:

- [Industry Association Links](#)
- [Geospatial Management Competency Model](#)
- [GeoTech Center Home Page](#)
- [Future U.S. Workforce for Geospatial Intelligence](#)
- [ETA Investments](#)
- [Pre-Workshop Webinar](#)

helpline:

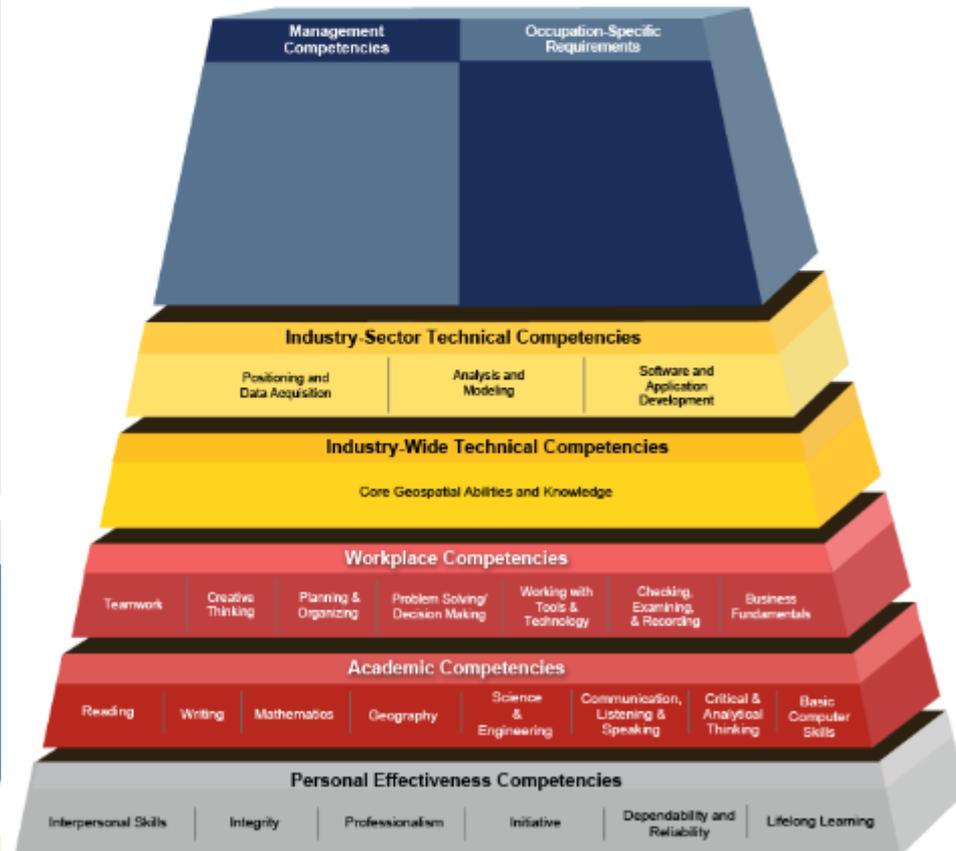
Geospatial Technology Competency Model

In collaboration with the GeoTech Center, the Employment and Training Administration (ETA) has worked with industry and education leaders to develop a comprehensive competency model for Geospatial Technology. The model is designed to evolve along with changing skill requirements. The GeoTech Center will work with its partners to keep the model current.



Scroll down to view the Industry model selected. OR Click on Industry Competency Models on the top navigation to view the Building Blocks.

Geospatial Technology Competency Model



Competency Model Case Summaries

- [How to Use Competency Models](#)
- [Searching the Resource Database](#)

General Instructions

- [Frequently Asked Questions](#)
- [Technical Assistance Guide](#)
- [Build a Competency Model](#)
- [Build a Career Ladder/Lattice](#)
- [Competency Models: A Review of the Literature and the Role of the Employment and Training Administration \(ETA\)](#)
- [Click here to download the Adobe Reader needed to read PDF files](#)

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7 records found

Page 1 of 2



Denotes a full Case Summary

Workforce Use	User	State
 Certification, Licensure, and Assessment Development; Curriculum Evaluation, Planning, and Development	Applying the Geospatial Technology Competency Model to Workforce Development	-
<p><u>Applying the Geospatial Technology Competency Model to Workforce Development</u>: Geospatial technology is an expanding industry sector with diverse applications in the business world. Occupations such as surveyors, engineers, drafters and computer technologists all use geospatial technology, but each has had its own career and education pathways and credentials. ETA, working in collaboration with the GeoTech Center, developed the Geospatial Technology Competency Model. This resource provides a conceptual framework to inform discussions among employers, educators, economic developers, and public workforce investment professionals about uniform curricula, standards and credentials for geospatial technology occupations. To read more visit http://www.careeronestop.org/competencymodel/info_documents/Geospatial_CaseSummary.pdf. (Case Summary PDF 143 KB)</p>		
 Career Exploration and Guidance; Curriculum Evaluation, Planning, and Development	Geospatial Technology Competency Model Drives Innovation	Virginia
<p><u>Geospatial Technology Competency Model Drives Innovation</u>: National and state organizations-the GeoTech Center, GeoTEd, and the National Information Security Geospatial Technologies Consortium-are actively utilizing ETA's Geospatial Technology Competency Model in a variety of innovative interconnected initiatives. These uses include the aligning curricula with employer requirements, professional development for faculty and teachers, creating career awareness of opportunities, and developing articulation/dual enrollment agreements. To read more visit http://www.careeronestop.org/competencymodel/info_documents/GTCM-CaseSummary.pdf. (Case Summary PDF, 71 KB)</p>		



O*NET OnLine

A proud partner of the [americanjobcenter](#) network

Occupation Quick Search:

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[Find Occupations](#)

[Advanced Search](#)

[Crosswalks](#)

[Share](#)

[O*NET Sites](#)



Build your future with O*NET OnLine.

Welcome to your tool for career exploration and job analysis!

O*NET OnLine has detailed descriptions of the world of work for use by job seekers, workforce development and HR professionals, students, researchers, and more!

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What's New?

New BLS projections and industry info in O*NET Websites

[Learn More](#)

Get O*NET news by [small](#) or [RSS](#).

I want to be a...

Start the career you've dreamed about, or find one you never imagined.

[Find It Now](#)

at My Next Move

ATTN: VETERANS

Put your military skills and experience to work in civilian life. Learn how at:

[MY NEXT MOVE](#) 

[Get Started](#)

The Green Economy is changing tasks, skills, and jobs across the country.

[Learn More](#) [Search](#)



Occupation Search

[Keyword](#) or [O*NET-SOC Code](#):



Find Occupations

[Browse](#) groups of similar occupations to explore careers. Choose from industry, field of work, science area, and more.

[▼](#) [▶](#)



Advanced Search

[Focus](#) on occupations that use a specific tool or software. Explore occupations that need your skills.

[▼](#) [▶](#)



Crosswalks

[Connect](#) to a wealth of O*NET data. Enter a code or title from another classification to find the related O*NET-SOC occupation.

[▼](#) [▶](#)

¿Haba español?

MI Próximo Paso incluye tareas, aptitudes, información sobre salarios y más de 900 carreras diferentes.



[Visite](#)



O*NET OnLine is sponsored by the U.S. Department of Labor, [Employment & Training Administration](#), and developed by the National Center for O*NET Development.

Related Occupations in O*NET OnLine

The screenshot shows the O*NET OnLine website interface. At the top left is the O*NET logo and the text "O*NET OnLine A proud partner of the americanjobcenter® network". On the top right is an "Occupation Quick Search:" field with a search button. Below the header is a navigation bar with links for "Help", "Find Occupations", "Advanced Search", "Crosswalks", "Share", and "O*NET Sites".

The main content area is titled "Quick Search for: GIS". Below this is a section "Occupations matching 'GIS'" with a paragraph explaining that results are ranked by relevance. A note says "Select the Relevance Score to view the specific items matched by your search within the occupation."

A table lists the results. The table has three columns: "Relevance Score", "Code", and "Occupation". The first row is circled in red and includes a "Bright Outlook" icon and a "Green" icon. The second row is also circled in red. The eighth row is circled in red. The thirteenth row is circled in red. The fourteenth row is circled in red. The fifteenth row is circled in red. The sixteenth row is circled in red. The seventeenth row is circled in red. The eighteenth row is circled in red. The nineteenth row is circled in red. The twentieth row is circled in red. The twenty-first row is circled in red. The twenty-second row is circled in red. The twenty-third row is circled in red. The twenty-fourth row is circled in red. The twenty-fifth row is circled in red. The twenty-sixth row is circled in red. The twenty-seventh row is circled in red. The twenty-eighth row is circled in red. The twenty-ninth row is circled in red. The thirtieth row is circled in red. The thirty-first row is circled in red. The thirty-second row is circled in red. The thirty-third row is circled in red. The thirty-fourth row is circled in red. The thirty-fifth row is circled in red. The thirty-sixth row is circled in red. The thirty-seventh row is circled in red. The thirty-eighth row is circled in red. The thirty-ninth row is circled in red. The fortieth row is circled in red. The forty-first row is circled in red. The forty-second row is circled in red. The forty-third row is circled in red. The forty-fourth row is circled in red. The forty-fifth row is circled in red. The forty-sixth row is circled in red. The forty-seventh row is circled in red. The forty-eighth row is circled in red. The forty-ninth row is circled in red. The fiftieth row is circled in red. The fifty-first row is circled in red. The fifty-second row is circled in red. The fifty-third row is circled in red. The fifty-fourth row is circled in red. The fifty-fifth row is circled in red. The fifty-sixth row is circled in red. The fifty-seventh row is circled in red. The fifty-eighth row is circled in red. The fifty-ninth row is circled in red. The sixtieth row is circled in red. The sixty-first row is circled in red. The sixty-second row is circled in red. The sixty-third row is circled in red. The sixty-fourth row is circled in red. The sixty-fifth row is circled in red. The sixty-sixth row is circled in red. The sixty-seventh row is circled in red. The sixty-eighth row is circled in red. The sixty-ninth row is circled in red. The seventieth row is circled in red. The seventy-first row is circled in red. The seventy-second row is circled in red. The seventy-third row is circled in red. The seventy-fourth row is circled in red. The seventy-fifth row is circled in red. The seventy-sixth row is circled in red. The seventy-seventh row is circled in red. The seventy-eighth row is circled in red. The seventy-ninth row is circled in red. The eightieth row is circled in red. The eighty-first row is circled in red. The eighty-second row is circled in red. The eighty-third row is circled in red. The eighty-fourth row is circled in red. The eighty-fifth row is circled in red. The eighty-sixth row is circled in red. The eighty-seventh row is circled in red. The eighty-eighth row is circled in red. The eighty-ninth row is circled in red. The ninetieth row is circled in red. The one hundredth row is circled in red.

Relevance Score	Code	Occupation
100	15-1199.05	Geographic Information Systems Technicians
77	15-1199.04	Geospatial Information Scientists and Technologists
68	17-1021.00	Cartographers and Photogrammetrists
51	17-3031.02	Mapping Technicians
51	19-3092.00	Geographers
45	15-1121.00	Computer Systems Analysts
45	17-1022.01	Geodetic Surveyors
45	17-2199.10	Wind Energy Engineers
45	17-3031.00	Surveying and Mapping Technicians
45	19-4081.01	City and Regional Planning Aides
45	19-4099.03	Remote Sensing Technicians
45	25-1084.00	Geography Teachers, Postsecondary
45	45-4011.00	Forest and Conservation Workers
34	19-4099.02	Precision Agriculture Technicians
11	19-1031.01	Soil and Water Conservationists
11	19-2041.02	Environmental Restoration Planners
6	11-9121.02	Water Resource Specialists
6	19-2021.00	Atmospheric and Space Scientists
6	19-2099.01	Remote Sensing Scientists and Technologists
6	19-3091.01	Anthropologists
6	33-3021.06	Intelligence Analysts



Summary Report for: 19-2099.01 - Remote Sensing Scientists and Technologists

[Updated 2011](#)



Apply remote sensing principles and methods to analyze data and solve problems in areas such as natural resource management, urban planning, or homeland security. May develop new sensor systems, analytical techniques, or new applications for existing systems.

Sample of reported job titles: Remote Sensing Analyst, Scientist, Geospatial Intelligence Analyst, Remote Sensing Program Manager, Remote Sensing Scientist, Research Scientist, Sensor Specialist

View report: **Summary** [Details](#) [Custom](#)

[Tasks](#) | [Tools & Technology](#) | [Knowledge](#) | [Skills](#) | [Abilities](#) | [Work Activities](#) | [Work Context](#) | [Job Zone](#) | [Education](#) | [Interests](#) | [Work Styles](#) | [Work Values](#) | [Related Occupations](#) | [Wages & Employment](#) | [Job Openings](#)

Tasks

- Analyze data acquired from aircraft, satellites, or ground-based platforms, using statistical analysis software, image analysis software, or Geographic Information Systems (GIS).
- Manage or analyze data obtained from remote sensing systems to obtain meaningful results.
- Process aerial or satellite imagery to create products such as landcover maps.
- Develop or build databases for remote sensing or related geospatial project information.
- Monitor quality of remote sensing data collection operations to determine if procedural or equipment changes are necessary.
- Attend meetings or seminars or read current literature to maintain knowledge of developments in the field of remote sensing.
- Prepare or deliver reports or presentations of geospatial project information.
- Conduct research into the application or enhancement of remote sensing technology.
- Discuss project goals, equipment requirements, or methodologies with colleagues or team members.
- Integrate other geospatial data sources into projects.

CareerOneStop TAACCCT Grantee Program Finder

Trade Adjustment Assistance Community College and Career Training (TAACCCT) Grantee Program Finder

New Search by

[Program of Study](#)
[Institution](#)
[TAACCCT Grant Project](#)
[Course](#)

Filter By

Credential Type

[Certificate \(2\)](#)
[Associate Degree \(1\)](#)

NAICS Industry

[Professional, Scientific, and Technical Services \(2\)](#)
[Information \(1\)](#)

Institution

[Mitchell Technical Institute \(1\)](#)
[Northland Community and Technical College \(1\)](#)
[Salt Lake Community College \(1\)](#)

TAACCCT Grant Project

[Imagery Analysis & Geospatial Intelligence \(1\)](#)
[Mitchell Technical Institute's Technical Education at a Distance \(TED\) Model \(1\)](#)
[National Information, Security, and Geospatial Technology Consortium \(NISGTC\) \(1\)](#)

Program of Study Summary

Enter Keyword

Location (Optional)

[Search](#)

3 Programs of study found for **geospatial**

Program of Study	Location
<p>Geospatial Intelligence</p> <p>TAACCCT Project: Imagery Analysis & Geospatial Intelligence</p> <p>Institution: Northland Community and Technical College</p> <p>NAICS Industry: Professional, Scientific, and Technical Services</p> <p>Credential Type: Associate Degree</p>	Thief River Falls, MN
<p>Geospatial/GIS Certificate</p> <p>TAACCCT Project: Mitchell Technical Institute's Technical Education at a Distance (TED) Model</p> <p>Institution: Mitchell Technical Institute</p> <p>NAICS Industry: Information</p> <p>Credential Type: Certificate</p>	Mitchell, SD
<p>GIS - Geospatial Technology</p> <p>TAACCCT Project: National Information, Security, and Geospatial Technology Consortium (NISGTC)</p> <p>Institution: Salt Lake Community College</p> <p>NAICS Industry: Professional, Scientific, and Technical Services</p> <p>Credential Type: Certificate</p>	Salt Lake City, UT

http://www.doleta.gov/grants/find_grants.cfm

- **Workforce Innovation Fund Grants – SGA-DFA-PY-13-06 t.**
 - **Issue Date: May 14, 2014**
Closing Date: June 18, 2014
[Full Announcement \(pdf format\)](#)
- **Trade Adjustment Assistance Community College and Career Training Grants Program-SGA-DFA-PY-13-10 Issue Date: April 16, 2014**
Closing Date: July 7, 2014
[Full Announcement \(pdf format\)](#)
 - **Issue Date: June 5, 2014**
Closing Date: July 7, 2014
[Amendment One \(pdf format\)](#)
- **Women in Apprenticeship and Nontraditional Occupations (WANTO) Technical Assistance (TA) Grant - SGA-DFA-PY-13-08 Issue Date: April 2, 2014**
Closing Date: May 2, 2014
[Full Announcement \(pdf format\)](#)

SGA0—Other Information

B. Web-Based Resources

DOL maintains a number of web-based resources that may be of assistance to applicants. For example, the CareerOneStop portal (<http://www.careeronestop.org>), which provides national and state career information on occupations; the Occupational Information Network (O*NET) Online (<http://online.onetcenter.org>) which provides occupational competency profiles; and America's Service Locator (<http://www.servicelocator.org>), which provides a directory of our nation's AJCs.

C. Industry Competency Models and Career Clusters

ETA supports an Industry Competency Model Initiative to promote an understanding of the skill sets and competencies that are essential to an educated and skilled workforce. A competency model is a collection of competencies that, taken together, define successful performance in a particular work setting. Competency models serve as a starting point for the design and implementation of workforce and talent development programs. To learn about the industry-validated models visit the Competency Model Clearinghouse (CMC) at <http://www.careeronestop.org/CompetencyModel>. The CMC site also provides tools to build or customize industry models, as well as tools to build career ladders and career lattices for specific regional economies.

Excerpt from TAACCCT SGA

- These national industry partners or other organizations that will help scale the strategy should play an integral part in proposals submitted for this option. Applicants will:
- (1) Develop or adapt and map industry competency frameworks for career pathways in high demand industries that are suited for TAA-eligible workers and other adults and that can be used to develop competency-based education programs within state and regional economies leading to an industry-recognized credential;
- (2) Develop and coordinate outreach and educational materials for industry, labor organizations, and postsecondary education institutions about the value and benefits of the programs developed; and
- (3) Demonstrate the adaptation and use of these competency-based frameworks and credentials beyond the applicant and any consortium members (if applicable)

Standard Occupational Classification (SOC)

- Used for Federal statistical data collection on occupations—Bureau of Labor Statistics, Bureau of the Census, ETA
- Public comments in response to SOC Federal Register Notice due July 21, 2014
- Link to FRN:
http://www.bls.gov/soc/FRn_May_22_2014.pdf



How to provide input to the 2018 SOC Revision

- Review the Classification Principles and Coding Guidelines
- Review the elements of a detailed SOC occupation
- Review the “Input Requested by the SOC Policy Committee”
- Provide information on the nature of the work performed, including specific activities and tasks
- Prepare well-organized and concise comments



Input requested by SOC Policy Committee

1. Nature of the work performed -- O*NET
2. How the work performed is distinct from other detailed occupations in the SOC
3. Job titles -- O*NET Lay titles file
4. Indications of the number of jobs or workers in the occupation
5. Types of employers
6. Education and Training
7. Licensing
8. Tools and Technology
9. Professional or trade associations or unions



SOC Code	SOC Title		
15-1199	Computer Occupations, All Other		
O*NET-SOC Code	O*NET-SOC Title		
15-1199.04	Geospatial Information Scientists and Technologists		
	Lay (Common) Title	Type	Source(s)
	Geographic Information Scientist		8
	Geographic Information Systems Administrator (GIS Administrator)	Acronym	8
	Geographic Information Systems Analyst (GIS Analyst)	Acronym	8
	Geographic Information Systems Application Specialist (GIS Application Specialist)	Acronym	8
	Geographic Information Systems Coordinator (GIS Coordinator)	Acronym	8
	Geographic Information Systems Data Administrator (GIS Data Administrator)	Acronym	8
	Geographic Information Systems Data Manager (GIS Data Manager)	Acronym	8
	Geographic Information Systems Data Specialist (GIS Data Specialist)	Acronym	8
	Geographic Information Systems Database Administrator (GIS Database Administrator)	Acronym	8
	Geographic Information Systems Engineer (GIS Engineer)	Acronym	8
	Geographic Information Systems Geographer (GIS Geographer)	Acronym	8
	Geographic Information Systems Manager (GIS Manager)	Acronym	8
	Geographic Information Systems Physical Scientist (GIS Physical Scientist)	Acronym	8
	Geographic Information Systems Scientist (GIS Scientist)	Acronym	8
	Geographic Information Systems Specialist (GIS Specialist)	Acronym	8
	Geographic Information Systems Technologist (GIS Technologist)	Acronym	8
	Geographical Information System Analyst (GIS Analyst)	Acronym	8
	Geospatial Analyst		8
	Geospatial Engineer		8
	Geospatial Information Scientist		8
	Geospatial Information Technologist		8
	Geospatial Scientist		8
	Geospatial Specialist		8
	Geospatial Technologist		8

CareerOneStop Certification Finder tool



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[Veterans ReEmployment](#)
[Worker ReEmployment](#)

For businesses [Business Center](#)

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Certification Finder

[Help Page](#)

[New Search](#)

Your Search

Keyword

15-1199.05

Find current certifications for your occupation or industry. Use the filters at left to refine your results.

Search by Certification Name, Organization, Industry or Occupation

15-1199.05

Search

2 certification(s) from 2 organization(s) found for **O*NET Code:**15-1199.05 with title **Geographic Information Systems Technicians**

New Search by

Related Occupations

- [Geospatial Information Scientists and Technologists](#)
- [Computer Systems Analysts](#)
- [Medical Records and Health Information Technicians](#)
- [Precision Agriculture Technicians](#)
- [Mapping Technicians](#)

Certification Name ↓	Certifying Organization ↓	Type ↓
Geographic Information Systems Professional	GIS Certification Institute	Advanced
Certified GIS/LIS Technologist	American Society for Photogrammetry and Remote Sensing - Imaging & Geospatial Information Society	Core

Certification Results

8 certification(s) from 4 organization(s) found

Certification Name	Certifying Organization	Type	
Geographic Information Systems Professional	GIS Certification Institute	Advanced	
Certified GIS/LIS Technologist	American Society for Photogrammetry and Remote Sensing - Imaging & Geospatial Information Society	Core	15-1199.04 and 15-1199.05
Certified Remote Sensing Technologist	American Society for Photogrammetry and Remote Sensing - Imaging & Geospatial Information Society	Core	19-2099.01 and 19-2099.03
Certified Mapping Scientist, Remote Sensing (ASPRS)	American Society for Photogrammetry and Remote Sensing - Imaging & Geospatial Information Society	Advanced	
Certified Photogrammetric Technologist	American Society for Photogrammetry and Remote Sensing - Imaging & Geospatial Information Society	Core	
Certified Photogrammetrist (ASPRS)	American Society for Photogrammetry and Remote Sensing - Imaging & Geospatial Information Society	Core	
Certified Mapping Scientist, GIS/LIS (ASPRS)	American Society for Photogrammetry and Remote Sensing - Imaging & Geospatial Information Society	Advanced	
Cadastral Mapping Specialist	International Association of Assessing Officers	Specialty	
Oracle Spatial 11g Certified Implementation Specialist	Oracle Corporation	Product/ Equipment	

Keyword

"remote sensing"

"remote sensing"

Search **New Search by****Related Occupations**[Remote Sensing Scientists and Technologists](#)[Remote Sensing Technicians](#)[Geodetic Surveyors](#)[Precision Agriculture Technicians](#)**Filter By****Industry**[Professional, Scientific, and Technical Services \(6\)](#)[Architectural, Engineering, and Related Services \(3\)](#)**Type**[Core \(4\)](#)[Advanced \(2\)](#)

6 certification(s) from 1 organization(s) found for "remote sensing"

Certification Name 	Certifying Organization 	Type 
Certified Remote Sensing Technologist  	American Society for Photogrammetry and Remote Sensing - Imaging & Geospatial Information Society	Core
Certified Mapping Scientist, Remote Sensing (ASPRS)  	American Society for Photogrammetry and Remote Sensing - Imaging & Geospatial Information Society	Advanced
Certified Photogrammetric Technologist  	American Society for Photogrammetry and Remote Sensing - Imaging & Geospatial Information Society	Core
Certified Photogrammetrist (ASPRS)  	American Society for Photogrammetry and Remote Sensing - Imaging & Geospatial Information Society	Core
Certified GIS/LIS Technologist 	American Society for Photogrammetry and Remote Sensing - Imaging & Geospatial Information Society	Core
Certified Mapping Scientist, GIS/LIS (ASPRS)  	American Society for Photogrammetry and Remote Sensing - Imaging & Geospatial Information Society	Advanced

aboutthisdata:

Data compiled and maintained by CareerOneStop and exclusively available on the CareerOneStop site.

[Read more](#)