Where are Geospatial Jobs located and what do they pay?

John Johnson, National Geotech Center
Geospatial Technology Competency Model

Tier 6
Occupation Specific Competencies

Tier 4 - 5
Industry Competencies

Tier 1 - 3
Workplace Competencies

U.S. Department of Labor Employment & Training Administration
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**

Click here to search for O*NET Occupational Competencies Profiles

**Tier 5 - Industry-Sector Technical Competencies**

- Positioning and Data Acquisition
- Analysis and Modeling
- Software and Application Development

**Tier 4 - Industry-Wide Technical Competencies**

- Core Geospatial Abilities and Knowledge

**Tier 3 - Workplace Competencies**

- Teamwork
- Creative Thinking
- Planning & Organizing
- Problem Solving/Decision Making
- Working With Tools & Technology
- Checking, Evaluating, & Recording
- Business Fundamentals
## Quick Search for: geospatial

Showing 15 occupations for geospatial. Closest matches are shown first.

The following terms have been used to augment your search: "spatial". You may wish to check your spelling and search again if you received unexpected results.

<table>
<thead>
<tr>
<th>How do they match?</th>
<th>Code</th>
<th>Occupation</th>
<th>Industry Outlook</th>
<th>Environment</th>
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</thead>
<tbody>
<tr>
<td>15-1199.04</td>
<td>15-1199.04</td>
<td>Geospatial Information Scientists and Technologists</td>
<td>Bright Outlook</td>
<td>Green</td>
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<tr>
<td>19-2099.01</td>
<td>19-2099.01</td>
<td>Remote Sensing Scientists and Technologists</td>
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<td>15-1199.05</td>
<td>15-1199.05</td>
<td>Geographic Information Systems Technicians</td>
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<tr>
<td>17-1021.00</td>
<td>17-1021.00</td>
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<td>19-4099.03</td>
<td>19-4099.03</td>
<td>Remote Sensing Technicians</td>
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<td>19-4099.02</td>
<td>19-4099.02</td>
<td>Precision Agriculture Technicians</td>
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<tr>
<td>17-3031.02</td>
<td>17-3031.02</td>
<td>Mapping Technicians</td>
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<td>19-3092.00</td>
<td>19-3092.00</td>
<td>Geographers</td>
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<td>17-1011.00</td>
<td>17-1011.00</td>
<td>Architects, Except Landscape and Naval</td>
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<tr>
<td>19-4021.00</td>
<td>19-4021.00</td>
<td>Biochemists and Biophysicists</td>
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<td>26-1064.00</td>
<td>26-1064.00</td>
<td>Geography Teachers, Postsecondary</td>
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<tr>
<td>19-2042.00</td>
<td>19-2042.00</td>
<td>Geoscientists, Except Hydrologists and Geographers</td>
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<td>19-4041.01</td>
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<td>Geophysical Data Technicians</td>
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<td>19-4041.02</td>
<td>Geological Sample Test Technicians</td>
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<tr>
<td>51-4121.06</td>
<td>51-4121.06</td>
<td>Welders, Cutters, and Welder Fitters</td>
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</table>
Summary Report for:
15-1199.04 - Geospatial Information Scientists and Technologists

Research or develop geospatial technologies. May produce databases, perform applications programming, or coordinate projects. May specialize in areas such as agriculture, mining, health care, retail trade, urban planning, or military intelligence.

Sample of reported job titles: Geographic Information Systems Administrator (GIS Administrator), Geographic Information Systems Analyst (GIS Analyst), Geographic Information Systems Coordinator (GIS Coordinator), Geographic Information Systems Manager (GIS Manager), Geographic Information Systems Specialist (GIS Specialist), Geographical Information System Analyst (GIS Analyst), Geospatial Intelligence Subject Matter Expert, Geospatial Program Management Officer, Resource Analyst, Technical Leader
# 70 GEOSPATIAL OCCUPATIONS

**FULL TIME - GIS/Remote Sensing/Survey**
- Cartographers and photogrammetrists
- Geodetic Surveyors *
- Geographic Information Systems Technicians *
- Geospatial Information Scientists & Technologists *
- Mapping Technicians
- Precision Agriculture Technicians *
- Remote Sensing Scientists and Technologists *
- Remote Sensing Technicians *
- Surveying and Mapping Technicians
- Surveying Technicians
- Surveyors

**ANCILLARY OCCUPATION**
- City & regional planning aids
- Urban and Regional Planners
- Appraisers and assessors of real estate
- Appraisers, Real Estate
- Assessors
- Civil Drafters
- Civil engineering technicians
- Civil engineers
- Traffic technicians
- Transit and railroad police
- Transportation Engineers *
- Transportation Planners *
- Anthropologists
- Anthropologists and archeologists
- Anthropology and Archeology Teachers, Postsecondary
- Archeologists
- Geological and petroleum technicians
- Geological Sample Test Technicians
- Geophysical Data Technicians
- Geoscientists, Except Hydrologists and Geographers
- Geographers *
- Geography teachers, postsecondary
- History teachers, postsecondary
- Agricultural equipment operators
- Atmospheric and Space Scientists
- Atmospheric Earth Marine & Space Sciences Teachers-Postsecondary
- Brownfield Redevelopment Specialists and Site Managers *
- Environmental Restoration Planner *
- Environmental Science and Protection Technicians, Including Health
- Environmental Science Teachers, Postsecondary
- Environmental scientists and specialists, including health
- Farm & ranch managers *
- Farm and Home Management Advisors
- Fish and game wardens
- Fishers and related fishing workers
- Forest & Conservation Workers
- Forest and Conservation Technicians
- Forest Fire Fighting and Prevention Supervisors
- Foresters
- Forestry and Conservation Science Teachers, Postsecondary
- Hunters and Trappers
- Hydrologists
- Range Managers
- Soil & Water Conservationists
- Soil and plant scientists
- Water Resource Specialists *
- Water/Wastewater Engineers *
- Wind Energy Engineers *
- Zoologists and wildlife biologists
- Ambulance drivers and attendants, except EMTs *
- Bus drivers, school or special client *
- Bus drivers, transit and intercity
- Driver/sales workers *
- Reporters and correspondents
- Septic tank servicers and sewer pipe cleaners *
- Power distributors and dispatchers
- Radio, cellular, and tower equipment installers and repairs
- Epidemiologists
- Intelligence Analysts *
- Emergency management directors

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1 Occupations using map creation software, US Department of Labor, 2014
* Indicates "Bright Outlook" (O*NET)
GIS SCIENTISTS/TECHNOLOGISTS/TECHNICIANS*

EMPLOYMENT

223,370

LOCATION QUOTIENTS

WAGES

$83,310/yr
$41.98/hr

<table>
<thead>
<tr>
<th>State</th>
<th>Employment (1)</th>
<th>Employment per thousand jobs</th>
<th>Location quotient (2)</th>
<th>Hourly mean wage (3)</th>
<th>Annual mean wage (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>District of Columbia</td>
<td>11,880</td>
<td>17.56</td>
<td>10.85</td>
<td>$54.43</td>
<td>$113,210</td>
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<tr>
<td>Maryland</td>
<td>13,995</td>
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<td>3.33</td>
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<tr>
<td>Oregon</td>
<td>6,340</td>
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<td>Colorado</td>
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<td>3.58</td>
<td>2.21</td>
<td>$44.05</td>
<td>$91,220</td>
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<td>West Virginia</td>
<td>2,140</td>
<td>3.02</td>
<td>1.87</td>
<td>$41.33</td>
<td>$86,070</td>
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</table>
REMOTE SENSING & PRECISION AGRICULTURE TECHNICIANS*

EMPLOYMENT

LOCATION QUOTIENTS

WAGES

$48,360/yr

$23.25/hr

72,020
<table>
<thead>
<tr>
<th>Geospatial Occupation</th>
<th>Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote Sensing Scientists &amp; Technologists*</td>
<td>$90,000</td>
</tr>
<tr>
<td>GIS Scientists, Technologists &amp; Technicians*</td>
<td>$80,000</td>
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<tr>
<td>Cartographers and photogrammetrists</td>
<td>$70,000</td>
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<tr>
<td>Surveyors</td>
<td>$60,000</td>
</tr>
<tr>
<td>Remote Sensing &amp; Precision Agriculture Technicians*</td>
<td>$50,000</td>
</tr>
<tr>
<td>Surveying and Mapping Technicians</td>
<td>$40,000</td>
</tr>
</tbody>
</table>

* BA: Bachelor's degree
  * AS: Associate's degree
  * HS: High School diploma