# Geographic Professions

**What can I do with this degree?**

<table>
<thead>
<tr>
<th>Areas</th>
<th>Employers</th>
<th>Strategies</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical/Environmental</strong></td>
<td>Federal government, Publishers of textbooks and maps, Travel agencies, Manufacturing and retail firms, Real estate developers, Corporations or companies in insurance, environmental work, transportation, communications and international trade, Scientific and research groups, Forestry, mining, engineering, architectural and surveying firms</td>
<td>Learn federal government job application process. Become skilled in related computer technology. Obtain related experience. Take elective courses in botany, plant science and wildlife.</td>
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<td>Water and Natural Resources</td>
<td>Planning, Environmental Impact, Terrain and Land Use</td>
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<td>Economic Development</td>
<td>State, regional, and local government, Federal government including: Central Intelligence Agency, Defense Mapping Agency, Bureau of Census, Department of State, Publishers of textbooks and maps, Travel agencies, Manufacturing and retail firms, Real estate developers, Corporations or companies in insurance, environmental work, transportation, communication and international trade, Scientific and research firms, Forestry, mining, engineering, architectural and surveying firms</td>
<td>Learn federal, state and local government job application process. Become skilled in related computer technology. Develop excellent communications skills. Obtain related experience. Understand local language, history, customs, and culture.</td>
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<td>Population</td>
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<td>Transportation</td>
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<td>Social Sciences Research</td>
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<td>Policy Research</td>
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<td>Program Development</td>
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<td>Program Administration</td>
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<td>Health Care Data Collection and Analysis</td>
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<td>Housing</td>
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<td>Statistics</td>
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### AREAS

#### CARTOGRAPHY
- Mosaics
- Photogrammetry
- Stereo Plotting
- Mapping
- Printing and Reproducing

#### REMOTE SENSING
- Private companies
- Colleges and universities
- Federal agencies including:
- State and regional government
  - Departments of Transportation, Agriculture, Environmental, and Health Planning Agencies

#### GEOGRAPHIC INFORMATION SYSTEMS

#### PLANNING
- Urban
- Regional
- City, county, and regional planning agencies
- State government
- Research organizations
- Private business
- Banks
- Industrial firms
- Airline companies
- Utility companies
- Federal government agencies including Agency for International Development, World Bank; Department of Housing and Urban Development
- Real estate development

### STRATEGIES

#### EMPLOYERS

- Federal government including:
  - Departments of Defense, Interior, Commerce, Agriculture, and State
  - State and local government agencies
  - Private industry including:
    - utilities, construction, engineering, energy, environmental planning, and consulting firms
  - Map publishers

- Become skilled in related computer technology.
- Learn photography skills.
- Take courses in surveying and measurements, photogrammetry, technical mathematics, drafting, statistics, optics, remote sensing, art and graphics.
- Seek summer internships.
- Learn federal, state and local government job application process.

- Develop excellent communications skills.
- Become skilled in related computer technology.
- Learn federal, state and regional government job application process.

- Develop team work skills.
- Learn federal, state and local government job application process.
- Maintain excellent academic undergraduate record.
- Obtain master's degree in planning.
### AREAS

**BUSINESS AND INDUSTRY**

- Retail and wholesale companies
- International trade organizations
- Forestry, mining, manufacturing, engineering, architecture and surveying firms
- Public utilities
- Hospitals and healthcare facilities
- Textbook and map publishers
- Travel agencies
- Real estate developers and construction firms
- Insurance companies
- Transportation firms
- Agricultural organizations
- Consulting firms

### EMPLOYERS

**BUSINESS AND INDUSTRY**

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### STRATEGIES

**BUSINESS AND INDUSTRY**

- Obtain a business minor.
- Develop research, evaluation and presentation skills applicable to business problems.
- Get experience working in highly competitive atmosphere.
- Take courses in statistical and mathematical analyses and computer programming.
- Develop excellent communication skills.

### EDUCATION

**Teaching**

- Elementary/secondary public and private schools
- Colleges and universities

**Research**

- Cartography, Remote Sensing and Computer Mapping
- Environmental Science
- Urban/Urban Related Studies

**Obtain certification/licensure for public school teaching.**

- Join National Council for Geographic Education and/or the Association of American Geographers.
- Complete master’s degree for community college teaching; Ph.D. for college/university teaching and research.
- Specialize in quantitative research techniques, computer mapping, and natural resource management.

### GENERAL INFORMATION

- Bachelor’s degree qualifies for entry-level government and industry positions.
- Master’s degree qualifies for community college teaching and advancement in industry and government.
- Ph.D. is required for advanced research or teaching positions in colleges and universities and senior positions in government and industry.
- Obtain volunteer, part-time, summer, internship, and/or co-op experience in architectural firms, geography department offices, museums or archeological sites.
- Join professional organizations—such as American Geography Society or the National Council for Geographic Education.
- Become a member of groups directed toward improvement of natural resources, environment and pollution control.
- Obtain computer, drafting, and computer-aided drafting (CAD) experience.
- Develop strong mathematical and statistics skills.
- Obtain experience and skills and develop interest in mapping, graphics and charts.
- Interest in photography may prove beneficial.
- Develop good communications skills.