

Mapping Your Career: Geographic Information Science (GIS), BS

The School of Geographical Sciences and Urban Planning – Career & Internship Services

Organizations across the globe are increasingly relying on location intelligence to make better decisions. As a result, careers in GIS are in demand more than ever. Equipped with data visualization and spatial analysis skills, GIS professionals qualify for occupations in countless fields. Every day, millions of people use GIS in government, private sector, and academia.¹

Industry Opportunities

- Geospatial data analysis enhances understanding, insight, decision-making, and prediction. By adding layers of geographic data—such as demographics, traffic, and weather—to a smart map or dashboard, organizations can use intelligence tools to identify where an event has taken place, understand why it is happening, and gain insight into what caused it. As part of a digital transformation, many organizations are relying on GIS technology to create location intelligence.²
- More than 90 percent of leaders believe that location intelligence is crucial to business and community success. Executives, managers, and operators apply this type of intelligence to meet a wide range of needs. Examples of its use include finding optimal locations in retail site selection, managing assets in real time, and maintaining or repairing vital infrastructure.²

Navigating Your Future in Geographic Information Science

(*Source: Bureau of Labor Statistics. Employment figures are for 2020; projected growth is for the period 2020-2030; median wages are for 2020)

Cartographers and Photogrammetrists

Collect, measure, and interpret geographic information in order to create and update maps and charts for regional planning, education, and other purposes.

- **Projected Growth:** 5%
- **Median Wages:** \$68,380

Surveyors

Make precise measurements to determine property boundaries. They use GIS technology that allows them to present spatial information visually as maps, reports, and charts.

- **Projected Growth:** 2%
- **Median Wages:** \$65,590

Surveying and Mapping Technician

Collect data and make maps of the Earth's surface.

- **Projected Growth:** 4%
- **Median Wages:** \$46,200

Zoologists and Wildlife Biologists

Use geographic information systems (GIS), modeling software, and other computer programs to estimate wildlife populations and track the movements of animals.

- **Projected Growth:** 5%
- **Median Wages:** \$66,350

Add Value to Your Degree

Extra-curricular opportunities can provide you with practical, real-world experiences to complement your degree.

YouthMappers ASU

The consortium organizes a global community of learners, researchers, educators, and scholars to create and use open geographic data that directly address locally defined development challenges worldwide. asu.campuslabs.com/engage/

American Association of Geographers

Promotes discussion among its members and with scholars in related fields, in part through the activities of its affinity groups and more than 60 specialty groups. [Aag.org](https://www.aag.org)