CAREERS IN GEOINFORMATICS

Location, location, location!

Location-based data are central to 80-90% of all governmental information and to a wide range of business endeavors. Students in OU’s Geoinformatics program study the science and technology of acquiring, analyzing, interpreting, distributing and using geographic information.

Geoinformatics studies the science and technology of geographic information systems (GIS), remote sensing, global positioning systems, visual communications, and geocomputation. Geoinformatics is by nature multi-disciplinary and integrates methodologies from computer science, geospatial science, cognitive psychology and more to solve problems and seek understanding of world systems.

- In 2004 the U.S. Department of Labor identified geospatial information technology as one of the most important new areas of employment.
- In 2009 the U.S. Department of Labor ranked geospatial careers with a bright future.
- According to the U.S. Department of Labor Statistics employment opportunities in geographic information science are expected to grow much faster than average with increases of 19-20% through 2016.

Degree Options

University of Oklahoma Students can earn a Bachelor of Arts or Bachelor of Science in Geographic Information Science degree. Students may apply to pursue an Interdisciplinary Master of Science or Doctor of Philosophy degree in Geoinformatics.

Notable Achievements

Both BA/BS degrees in Geographic Information Science are closely affiliated with the Center for Spatial Analysis (CSA) at the University of Oklahoma. Faculty at the Center for Spatial Analysis are engaged in interdisciplinary research centered on the science and technology of remote sensing, geographic information science and visual analytics nationally and internationally. With three laboratories on the OU Research Campus, CSA students have unique opportunities to work with faculty and staff on research. Our students won national scholarship, regional scholarships, and campus student awards.

Interests and Skills

Geographic Information Science students typically have interests in computing, technology and the Earth’s physical, ecological, or social processes. GIS students also tend to be curious, big-picture thinkers and problem solvers. High school preparation should include math, science, computing, and
The US Department of Labor declared geospatial technology as one of 12 targeted industries which are high growth, high demand, and economically vital for the nation. Career opportunities span academia, government, industry, and non-governmental organizations. Lending itself to both physical and social sciences, geospatial technology is applied across a broad range of sectors. CNNMoney.com ranks GIS analysts the 97th of all the best jobs in America.

Areas of application include information technology, land and resource management, public health and safety, marketing and business intelligence, planning and landscape architecture, transportation and logistics, energy and utilities, asset management, redistricting (school districts, congressional districts, or municipalities), consumer industries (such as in-car navigation systems, location-based

**Career Titles for Geoinformatics Majors**

- GIS Coordinator
- GIS Analyst
- GIS Specialist
- GIS Manager
- GIS Developer
- GIS Technician
- GIS Data Specialist
- GIS Engineer
- GIS Cartographer
- GIS Programmer
- GIS Mapping Technician
- GIS Application Specialist
- GIS Software Development Manager
- GIS Database Specialist
- GIS Implementation Specialist
- GIS/Data Services Analyst
- Advanced Visualization Programmer
- Consultant/Project Manager
- Database Analyst/Administrator
- Geospatial Information Scientist
- GIS programmer
- Server Administrator/Developer
- Data Integration Specialist
- Software Applications Specialist/Developer
- Geospatial Project Manager
- Research Analyst
- 3D Visualization Analyst
- Remote Sensing Specialist

**Related Websites:**

- [http://www.aag.org/nature.pdf](http://www.aag.org/nature.pdf)
- [http://www.bls.gov/oco/ocos040.htm](http://www.bls.gov/oco/ocos040.htm)

How do I get more information?

For information about degree programs, careers and internships, please contact:

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