

# GEOSPATIAL BIG DATA ANALYTICS, CERTIFICATE

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Requirements for an undergraduate certificate may be completed at any campus location offering the specified courses for the certificate.

## Career Paths

There are many potential careers for big data geospatial scientists. Students earning the Geospatial Big Data Analytics certificate learn a wide range of technological, research, and analytical skills that are highly valued by employers. Big data geography undergraduates find jobs in all levels of government, nonprofit organizations, and industry. This is one of several geography-related certificates that students can use to tailor their educational experience in preparation for the job market. The Department of Geography also offers certificates in Environment and Society Geography; Geographic Information Science; Human Geography; Justice, Ethics and Diversity in Space; Landscape Ecology and Physical Geography.

## Careers

Students earning the certificate in Geospatial Big Data Analytics are well positioned to find employment with diverse organizations spanning business, government, and nonprofit sectors. Such organizations may include (but are not limited to): American Red Cross; Amnesty International; BAE Systems; Boeing; Esri; Federal Emergency Management Agency; NASA; National Geographic; National Park Service; United Nations; U.S. Army Corps of Engineers; U.S. Census Bureau; U.S. Environmental Protection Agency; local, regional, and state planning agencies; environmental and engineering consulting firms; State Department; and humanitarian organizations.

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES WITH A CERTIFICATE IN GEOSPATIAL BIG DATA ANALYTICS (<https://www.geog.psu.edu>)

## Opportunities for Graduate Studies

A certificate in Geospatial Big Data Analytics is useful for students who are interested in pursuing graduate degrees in the computational, environmental, and social sciences. Alumni enter graduate and professional studies in a variety of programs, including (but not limited to) geography, planning, international development, urban studies, sustainability, environmental sciences, ecology, geographic information sciences, information technology, environmental informatics, geodesign, business administration, supply chain management, emergency management, law, and education. They sometimes begin graduate or professional programs directly after finishing undergraduate studies, but often get several years' work experience before returning to school, either full or part-time.

MORE INFORMATION ABOUT OPPORTUNITIES FOR GRADUATE STUDIES (<https://www.geog.psu.edu>)

## Professional Resources

- American Association of Geographers (AAG) (<https://www.aag.org>)
- North American Cartographic Information Society (NACIS) (<https://nacis.org>)
- ASPRS: The Imaging & Geospatial Information Society (<https://www.asprs.org>)

- Urban and Regional Information Systems Association (URISA) (<https://www.urisa.org/>)
- International Cartographic Association (ICA) (<https://icaci.org/>)