GEOGRAPHIC INFORMATION SYSTEMS TECHNICIAN

Overview

Degrees Offered: Certificate of Completion
Program Begins: Fall, Spring
Delivery Method: Online, On Campus
Phone: 701-224-5651 • 800-852-5685
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Description

Geographic Information Systems (GIS) is a powerful computer-based software that makes use of spatial and statistical methods to analyze and display geographic information. A GIS user creates maps from databases linked to location analytics. Students learn the basics of geospatial applications used on the job.

Preparation

GIS workers typically work on teams and need good communication and interpersonal skills. Other considerations are creative thinking and problem-solving skills, curiosity, and aptitude for working with computers.

Requirements

Students who complete the curriculum requirements earn a Certificate of Completion. Students should be aware that they will be required to take some classes online.

The Certificate of Completion introduces students to GIS applications and computer technology. The certificate indicates proficiency in GIS and is meant to supplement to another course of study.

This program receives funding from the U.S. Department of Labor; therefore, veterans and eligible spouses receive priority of service over non-covered persons. (20 CFR 1010)

Career Opportunities

GIS proficiency is a skillset employers seek in job applicants today.

Career possibilities include energy production and distribution, agriculture, science, transportation, engineering, wildlife and natural resources, law enforcement, emergency management, government, social services, archeology, environmental monitoring, city planning, marketing, telecommunications, repair service, retail business, and more. Geospatial knowledge makes students more employable.

Degree Plans

- Geographic Information Systems Technician Certificate of Completion

Program Learning Outcomes

Upon graduation, Geographic Information System students will be able to:

- Apply theoretical considerations in GIS problem solving.
- Perform practical spatial analysis and geo-processing functions.
- Demonstrate organizational skills in file and database management.
- Apply basic graphic cartography and data visualization concepts.
- Effectively communicate and present project results in oral, written, and graphic forms.