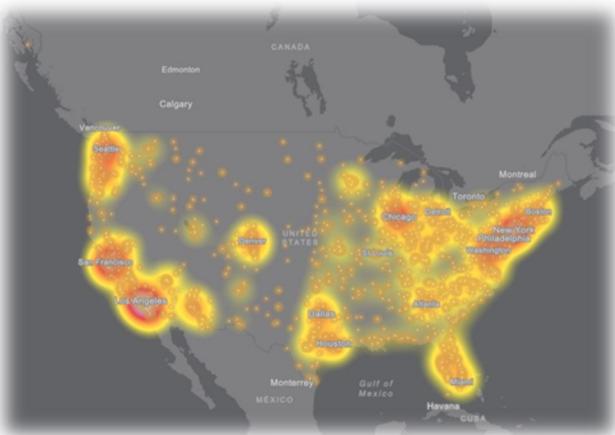## GIS Careers
In High Demand

Geospatial information is increasingly becoming the driving force for decision making across the local to global continuum. Many tasks can be greatly enhanced by the use of geospatial technology, including:
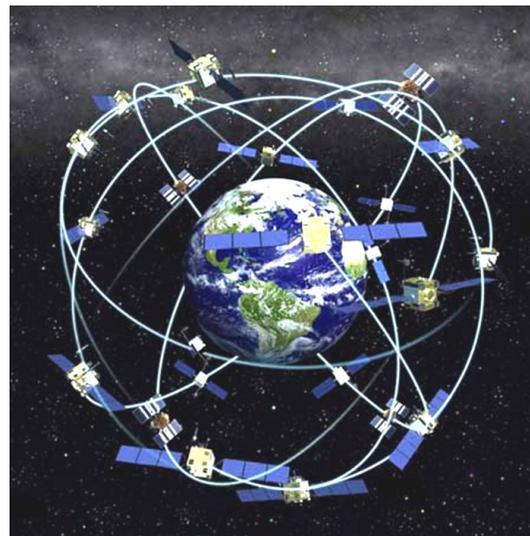
- Drone Operations
- Mapping Natural Disasters And Hazards
- Guiding "Intelligent" Vehicles
- Law Enforcement Intelligence
- Routing First Responding Vehicles
- City Planning
- Forest Management
- Assessing Weather Patterns
- Designing Road Networks
- Providing Famine Relief
- Studying Global Climate Change
- Military Strategy and Troop Movement

Find out more about Geospatial and Geographic Information Systems:

⇒ gps.gov

⇒ gislounge.com/

⇒ ccpsk12gis.weebly.com/

⇒ landsat.gsfc.nasa.gov/landsat-8/

⇒ gisgeography.com/gis-applications-uses/

If you **LOVE** computers, high tech software, art, and cutting edge data acquisition for trend prediction and analysis - GIS is for **YOU!**

Notice of Non-Discrimination

The Carroll County Public Schools (CCPS) is firmly committed to creating equal employment and educational opportunities for all persons with regard to its employment practices and in the provision of services, programs, and activities. The CCPS does not discriminate on the basis of age, color, genetic information, marital status, mental or physical disability, ancestry or national origin, race, religion, sex, or sexual orientation. The CCPS provides non-discriminatory access to school facilities in accordance with its policies and regulations regarding the community use of schools (including, but not limited to, the Boy Scouts).
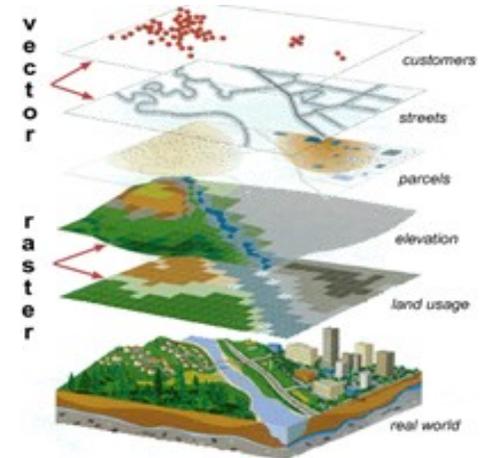
The CCPS has adopted an internal grievance procedure providing for prompt and equitable resolution of complaints alleging any discriminatory action prohibited by applicable laws.

Any person who believes she or he has been subjected to discrimination on the basis of disability may file a grievance under this procedure. It is against the law for the CCPS or any of its employees to retaliate against anyone who files a grievance or cooperates in the investigation of a grievance.

Grievances or complaints related allegations of discrimination should be addressed to the Director of Research and Accountability. The following person has been designated to handle inquiries regarding the non-discrimination policies: Gregory J. Bricca Director of Research and Accountability, 125 North Court Street, Westminster, Maryland 21157 410-751-3068

Carroll County Public Schools

G.I.S.T.
Geographic Information Systems Technology
Excellence. Perseverance. Pride.

Geographic Information Systems Technology

Carroll County Public Schools
Building the Future
CCPS

Courses taught at:

Carroll County Career and Technology Center

1229 Washington Road

Westminster, MD 21157

What are the courses like?

CCPS GIS program is a four course completer that prepares you for a cutting edge career in the digital world.

The first course, Foundations of Homeland Security and Emergency Preparedness, focuses on the guidelines, concepts, and action plans with an emphasis on public safety and public health. The **second and third courses** consist of learning STARS (Spatial Technology and Remote Sensing) through ArcGIS.

The STARS curriculum is designed to prepare a student in geospatial skills and project management. This two semester intensive series of courses provides students with the skills to be an entry level geospatial technician.

The introductory series, *STARS 1 & 2*, covers topics from basic concepts in Project Management to GIS, GPS, and Remote Sensing. It is in this course where students learn about mapping, projections, coordinate systems, scale, multispectral imagery, and various other concepts that are essential to being effective in GIS.

The advanced series, *STARS 3 & 4*, will discuss the uses and applications of ArcGIS software and its extensions including: Spatial Analyst, 3D Analyst, Network Analyst, and ERDAS's Image Analysis extension for ArcGIS. Each student will need to complete one project and achieve a 70% or higher on the written STARS exam to become STARS certified.

The **fourth course** is a *capstone project*. This project allows students to show application of geospatial skills and concepts learned in previous coursework and experiences. Upon completion this project is submitted to the STARS Certification Committee for review. At the end of the course, students will compile a working portfolio which documents their academic and technical skill attainment for presentation.

What advantages does the program offer to me?

✅ Gain experience with cutting edge technology.

✅ Learn ArcGIS and geospatial skills.

✅ Create a marketable portfolio that can be used for employment or college admittance.

✅ Obtain real life experience through a GIS related internship.

✅ Become one of a few students leaving high school with this technological skill.

✅ Earn a certification that students would pursue at the collegiate level.

✅ Prepare for colleges offering this great program.

Who should be certified in the Geospatial / Geographic Technology Systems field?

Certifications can lead to positions including:
- GIS (Geographic Information Systems) technicians
- GPS (Global Positioning Systems) technicians
- Surveyors and Surveying technicians
- Cartographers
- Photogrammetrists
- Law Enforcement analysts
- Military Intelligence analysts
- Weather Forecasters

"The U.S. Department of Labor Employment and Training Administration ...cites an **annual growth** rate of approximately **35 percent** for the geospatial technology industry" -

Source: *What are the prospects for employment in GIS and related industries? | Geospatial @ UCLA,* gis.ucla.edu/blog/gis-employment-outlook. Accessed 3 Oct. 2017.