

# GIS – What is it and what could be your career opportunities



What is GIS?: <http://www.esri.com/what-is-gis>



What is GIS (PDF): <http://www.esri.com/~media/Files/Pdfs/library/bestpractices/what-is-gis.pdf>



**What is GIS (YouTube Video):** <https://www.youtube.com/watch?v=LHDCRjAxpI0>



**GIS – Getting Started:** <https://www.esri.com/en-us/what-is-gis/get-started>



Esri -- The Science of Where (Video): <https://www.youtube.com/watch?v=XrU8GX7manc>



Applying the Science of Where (Video Talk at Esri 2017 UC): <https://youtu.be/HkehjoYK6hY>



**Showcase of GIS Success Stories:** <http://www.esri.com/what-is-gis/showcase>



**GIS Guided Training & Learning Opportunities:** <http://learn.arcgis.com/en/>



**ArcGIS Online (Entry Page):** <http://www.esri.com/what-is-gis/jobs>



**Getting Started with ArcGIS Online (Training):**

[https://www.esri.com/training/catalog/57eb2e47ee85c0f5204beb1d/get-started-with-arcgis-online-\(2017\)/](https://www.esri.com/training/catalog/57eb2e47ee85c0f5204beb1d/get-started-with-arcgis-online-(2017)/)



**Career Opportunities in GIS:** <http://www.esri.com/what-is-gis/jobs>



**Reasons to consider GIS as a Career (PDF):** <http://www.esri.com/news/arcuser/0311/files/giscareer.pdf>



**GIS & Geo-enabled Career Videos:**

<http://education.maps.arcgis.com/home/group.html?id=e0df1d54cad942d9885b34b202adcd2c>



**GIS: Mapping your World:** <https://www.youtube.com/watch?v=6AlH5TvFoLw>





Exploring Careers in GIS (YouTube Video): [https://www.youtube.com/watch?v=brwFKwaDm\\_8](https://www.youtube.com/watch?v=brwFKwaDm_8)



What's it like to be a Geographic Information Scientist? (YouTube Video): <https://www.youtube.com/watch?v=A2-dcagH5u4>



**Geographic Information Systems (GIS) TEDXRedding Talk:** [https://www.youtube.com/watch?v=9V\\_Mz7NDy3o](https://www.youtube.com/watch?v=9V_Mz7NDy3o)



**A Day in the Life of a GIS Analyst (YouTube Video):** <https://www.youtube.com/watch?v=rokWdaGc3u4>



## Top 5 Skills You'll Need to have a Successful Career in GIS:

(Part 1 YouTube Video): <https://www.youtube.com/watch?v=wOfZl6yPrjo&list=PL6lgyplmRAtszOJSviZINca5XW-2cyo0T>



(Part 2 YouTube Video): [https://www.youtube.com/watch?v=2lu\\_PMIoo7Y&list=PL6lgyplmRAtszOJSviZINca5XW-2cyo0T](https://www.youtube.com/watch?v=2lu_PMIoo7Y&list=PL6lgyplmRAtszOJSviZINca5XW-2cyo0T)



### Publications:

ArcNews: A magazine featuring GIS success stories: <http://www.esri.com/esri-news/arcnews>



ArcWatch: E-magazine for GIS news, views, and insights: <http://www.esri.com/esri-news/arcwatch>



ArcUser: The magazine for Esri software users: <http://www.esri.com/esri-news/arcuser>



Winter 2018 Publication (PDF): <http://www.esri.com/~media/Files/Pdfs/news/arcuser/0118/arcuser-winter-2018.pdf>



# School District Applications of GIS

## How does the Lake County School District use GIS?

### Facility Planning:

- Analyzes student generation rates related to existing and future residential developments. This is important for the projection of student growth and the planning for new schools and operational facilities.
- Analyzes various scenarios for future facility locations.

### Real Estate:

- Locates and analyzes the availability and condition of potential sites for new schools.

### Student Enrollment:

- Analyzes relationships of students and programs for adjusting school capacity and redistricting for the creation or modification student assignment (attendance) boundaries for new and existing schools.

### Student Demographics:

- Evaluates associations or connections related to social or economic factors in an effort to work toward resolutions in understanding graduation rates and incident.

### Student Walking Safety:

- Evaluates walking hazards within 2-miles of elementary schools to determine no hazardous conditions exist that would require bus transportation.
- Coordinates with local government transportation agencies to prioritize sites for new pedestrian friendly sidewalks and signalization.

### Student Transportation:

- Analyzes consistently changing street, traffic, and accident data in evaluating and planning of future bus routes and bus stops to support safe and efficient student transportation.

## Continued -- How does the Lake County School District use GIS?

### Technology Trends for Operations:

- Currently evaluating the use of GIS in documenting and tracking new facilities with the use of GPS enabled 360 degree cameras and aerial drones.

### Public Transparency:

- Creation of interactive web maps and web-based applications for decimation of information to parents, stakeholders and the general public.
- Creation of web-based applications that will increase staff efficiency and accuracy in the interaction with stakeholders on routine questions about district operations.

### Financial Analysis:

- Evaluates trends or scenarios with the implementation of various Board or state-directed policies that could impact District funding through the collection of ad valorem, sales tax, or impact fee collection.

### Technical Support to GIS Career Tech Program and Educational Staff:

- Works in cooperation with IT Department staff on maintenance of GIS related software for Career Technical Education (CTE) program.
- Provides technical and educational support to all educational staff on use of GIS in STEM (Science Technology Education & Math) programs.

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