

Geospatial Information Systems (GIS) Laboratory at UIS

GIS is a quickly evolving technology that can map problems and identify patterns of resource needs. Global Positioning Systems (GPS) are a small part of this technology. GIS goes beyond GPS and can layer maps in a 3-dimensional way to study spatial analysis of virtually anything- including work done in all the academic programs offered by UIS.

- **Training-** The GIS laboratory at UIS is open to companies and agencies with employees who need to be trained in how to use this technology and interpret the data as it relates to their business or purpose.
- **Geocoding-** Through the GIS Center at UIS, groups and researchers will be able to learn how to geocode their own information onto basic spatial information for the area. The Department of Environmental Studies will also be looking for collaborative research projects as well as small projects that can be used for students training and thesis research. The geocoded information can then benefit all participating groups as it is supplied back out to the field.
- **Expertise-** All faculty in the Department of Environmental Studies have basic knowledge of GIS and remote sensing. Dr. Yang Zhang will serve as lead researcher and center director. Dr. Yang has expertise in environmental planning and management using GIS, remote sensing, and other spatial analysis. Under his direction, the Center will become a resource to Central Illinois for geocoded data, spatial analysis research, and training.