

## **HAL GREENWOOD**

Ecological and Geographical Sciences Section  
Environmental Science Division  
Argonne National Laboratory

### **Education:**

- M.S. Illinois Institute of Technology, Graduate Studies in Information  
Technology  
B.S. University of Utah, Geography (Minor: Sociology), 1996

### **Professional Experience:**

- 2009- Pres. GIS Programmer/Analyst Sr.  
Environmental Science Division, Argonne National Laboratory

Identify, develop, and implement appropriate approaches, using GIS tools and spatial modeling, to conduct analyses for evaluation of the effects of human activities on the natural environment, cultural resources, human land use, and socioeconomic conditions. Develop and analyze digital spatial databases, and prepare computer-generated maps and images for use in conducting environmental analyses. Serves as project lead and/or GIS technical leader for Division projects.

### **Summary of Previous Experience:**

- 2001-2009 City of Wheaton - Information Technology Department  
Wheaton, IL

Oversee development, implementation, and maintenance of Enterprise GIS applications throughout city departments such as Engineering, Public Works, Planning, Police and Fire. Developed, analyzed and managed spatial databases and related tabular databases to produce maps, reports and plans related to GIS. Performed professional, technical and administrative work to plan, organize, manage, and promote the citywide Geographic Information System. Trained and supported the GIS activities of the city's data editors. Created and maintained geometric networks for sanitary sewer, storm sewer and water distribution systems. Managed the city's GPS program.

- 1998-2001 DuPage County – GIS Planner - Stormwater & Environmental Concerns  
Department - Wheaton, IL

Analyzed spatial data for county and regional planning studies pertaining to issues such as transportation, economic development and land use planning. Developed GIS and database

applications, provided decision support with planning information systems, fulfilled data and map requests from the public. Responsible for Network and PC installation, configuration and administration. Provided technical support and training on various software applications.

1997-1998 Village of Romeoville – Planning & Zoning Assistant - Community Development Department - Romeoville, IL

Concentrated on research, development, and implementation of local land use planning laws, subdivision/development regulations, and zoning enforcement. Performed research and technical work for revisions to Comprehensive Plan.

1997 United States Census Bureau – Geographic Assistant - Geography Department, Westchester, IL

Used cartographic skills to update digital mapping files using TIGER and GIS in preparation for the 2000 Census. Corresponded with Illinois, Wisconsin, Indiana and Tribal government agencies for current land use, housing and transportation data.

**Research Interests:**

Internet Mapping  
3D Visualization  
Spatial Analysis  
Land Use Change

**Professional Activities:**

Member, Urban and Regional Information Systems Association  
Member, Illinois GIS Association  
Certified GIS Professional, GIS Certification Institute