

Powering smarter decisions through spatial intelligence.

COMPANY OVERVIEW

Geospatial Solutions LLC is a geospatial consulting firm specializing in advanced GIS, remote sensing, and automation solutions tailored to the infrastructure, renewable energy, and environmental sectors. We help organizations optimize project development by transforming complex geospatial data into actionable insights. Our team combines deep technical expertise with a business-first mindset, leveraging ESRI and open-source GIS tools, Python, remote sensing, and BI dashboards.

CORE COMPETENCIES

Renewable Energy & Environmental GIS

- Site selection and suitability mapping
- Floodplain and hydrology modeling
- Solar risk analysis with elevation, land cover, and LiDAR
- Phase I environmental screening support
- Viewshed, shading, and animation tools for engagement

Automation & Workflow Optimization

- GIS automation with Python/ArcPy
- QA/QC workflows via Survey123 & Power Automate
- SCADA-GIS integration for EPC/O&M handoff
- Human-in-the-loop review for output accuracy

Remote Sensing & Data Acquisition

- Drone, aerial, and satellite imagery processing
- Change detection and classification modeling
- Imagery cataloging and spatial analysis

Spatial Data Management & Architecture

- LiDAR fusion and elevation data integration
- CAD/GIS sync and large dataset handling
- Database design for assets, warranty, and tracking

Dashboards & Visualization

- Live GIS + SCADA dashboards
- Interactive tools (ArcGIS, Tableau, Quickbase)
- Office-to-field communication and reporting tools



PAST PERFORMANCES

- Automated mobile QA/QC tools to boost EPC compliance
- Integrated SCADA alerts with GIS for faster issue resolution
- Modeled flood risk and elevation for solar site planning
- Used drone/satellite data for site grading and land analysis
- Designed unified databases across design to O&M lifecycle

Why Geospatial Solutions?

- 15+ years of proven GIS expertise
- Deep experience with renewable energy, EPC/O&M, and environmental workflows
- Scalable, U.S.-led team with remote staffing capability
- Strong focus on automation, data reliability, and visual reporting