JOB DESCRIPTION:
GIS Implementation Architect

DESCRIPTION:
A GIS Implementation Architect is a technical hands-on project manager and consultant responsible for designing, managing and delivering complex geospatial implementations for consulting clients. This senior-level position entails using expert GIS skills to perform advanced technical tasks, leading team members to do the same and often managing the projects from start to finish. Implementation projects may consist of many of the following elements: software selection, installation, configuration and/or customization; geospatial systems integration; database creation, conversion, migration and/or maintenance. It may also entail designing a client organizational structure to support a GIS operation including job descriptions, recruitment, training and support. In all these cases, the GIS Implementation Architect has the primary responsibility for liaising with the client, determining requirements, designing an implementation solution and getting it approved and then executing the solution, most often with the aid of a team of NorthSouth GIS staff, contractors and partners. The GIS Implementation Architect is responsible for making sure that client requirements are translated accurately to the team that implements the solution and then for making sure that the solution is implemented and communicated accurately to the client. GIS Implementation Architects participate heavily in the writing of proposals and budgets for the projects that they are responsible for. On most projects, GIS Implementation Architects also manage the projects’ budgets, client reporting, and invoicing. GIS Implementation Architects work closely with and often take strategic direction from NSG’s GIS Services Manager and GIS Solutions Manager.

RESPONSIBILITIES:
• Provide a significant proportion of billable GIS Implementation Architect service hours to our clients, off-site and on-site, as needed.
• Provide technical analysis, design, and architecture for GIS databases and systems implementation, as well as organizational analysis to the level needed to support the technical solutions proposed by NorthSouth GIS.
• Liaise with our software development teams to help translate user requirements into software specifications.
• Install, configure and train users on both COTS and custom software written by our development teams.
• Advise on and help clients to implement organizational changes to enable and support the technical solutions.
• Establish and maintain strong, healthy relationships with clients.
• Assist clients with system implementation tasks, data development and various consulting services.
• Ensure that development projects meet business requirements and goals, to ensure a high return on investment for our clients.
• Test and troubleshoot solution components and advise on resolutions.
• Fulfill end-user requirements, identify and resolve systems issues.
• Install, configure and manage ArcGIS for Server and SQL Server / Oracle / PostgreSQL databases.
• Create, configure and manage ArcGIS for Server map and data services.
• Configure and publish ArcGIS for Server-based web sites using third party middleware.
• Write user manuals and training materials, and deliver training.
• Work as an integral part of NorthSouth GIS and other companies it may engage with on projects, sharing information and interacting to fulfill client requirements.
• Participate in the design, analysis and documentation for proposals, client projects and internal projects.
• Lead project teams.
• Report progress to clients, NorthSouth GIS management and, when assigned, to an NSG project coordinator or project manager.
• Remain within project budgets and schedules, and help maximize company success, reputation and profitability.
• Perform related duties as assigned.
Required Skills and Experience
• Recent 10 years of experience with Esri GIS software such as ArcGIS for Desktop and ArcGIS for Server
• Experience in spatial data creation, editing and conversion using ArcGIS and loading into an enterprise versioned geodatabase
• Hands-on experience with ArcSDE / SQL Server / Oracle enterprise versioned geodatabases
• Experience in creating ArcGIS for Server dynamic and cached map services, image services, locators, etc.
• Experience in configuring/implementing/customizing/securing GIS web viewers
• Project management experience with responsibility for budgets, schedules and deliverables, medium to large scale project experience preferred
• Experience working with SQL Server Management Studio
• Excellent English, both written and spoken, and comfort communicating with a variety of clients, staff, and other professionals
• Bachelor’s Degree in Computer Science, Geography, GIS or other relevant field

Helpful Skills and Experience:
• DBA experience with SQL Server, Oracle and/or ArcSDE
• ArcGIS for Server Administration
• Prior consulting experience including significant interaction with clients
• Experience with deploying Geocortex Essentials sites and workflows
• Experience with ModelBuilder, Python Scripting
• Basic programming skills and comprehension of software development logic
• Experience with GPS field data collection (i.e. not surveying)
• Experience with PSIM, Command and Control (C2), and Computer Aided Dispatch software
• Experience with mobile GIS applications: ArcGIS Mobile, HTML5, native apps
• Experience with web development and/or web server administration
• Experience creating ArcGIS Server geoprocessing services
• Demonstrable hands-on experience with AutoCAD

Desired Personality
• A collaborative teammate who appreciates the value of communicating, brainstorming and sharing information
• Enthusiastic and career driven problem solver who enjoys widely-varied technical challenges
• Able to travel to client sites in and out of the region (typically infrequent multi-day trips or rare multi-week trips)
• Willing to perform duties outside of the basic job description and quickly expand skill set into new areas
• Able to thrive in a dynamic environment with rapidly changing objectives and priorities
• A GIS evangelist who comfortably and enthusiastically engages non-techies in discussions about technology

Employment Terms:
• American Citizen or US Permanent Resident with work authorization
• Full time, salaried position with benefits
• Compensation commensurate with experience
• Equal opportunity employer
• All candidates must be eligible to obtain a Transportation Workers Identification Credential (TWIC) (see https://www.tsa.gov/for-industry/twic to determine your eligibility – please ascertain your eligibility before applying for this position)

A personal note about who we are and how you will fit:
NSG is a small, successful and growing consulting company consisting of exceptionally skilled people who really love GIS technology. We have been around for 18 years and continue to evolve with the industry. We are geospatial system integrators who help our clients to connect their IT systems through GIS and GIS Web Viewers. We design and implement GIS tools and system integrations to do things such as help clients plan for security threats and emergencies, manage their properties and assets, improve collaboration and provide a spatial context for decision making. We help clients adjust processes and procedures to better support and maintain their spatial databases, increase overall efficiency using spatial integrations and enhance their ability to succeed. Our goal is always to provide a good return on investment to
our clients and help them accomplish real business goals. Our clients love our commitment to their success, our willingness to flex and bend to meet their unique business needs, and to remain professional through thick and thin. Perhaps our main “flaw” is our obsession with geospatial technology and our client’s success utilizing it.

As consultants, we are subject to a very dynamic workload. Some weeks, especially when project deadlines approach, you may work long hours and experience some stress. Other weeks, you may find yourself looking for ways to be useful while your projects are held up for various reasons. This is the nature of consulting and it is not for everyone. However, if you are someone who enjoys a challenge, building clever and useful tools, solving problems and doing real things with GIS, it is very rewarding and a great career builder.

Most days you will probably work from our office and remotely connect to client offices to work on their projects. Periodically you will need to travel to a client location, meet with clients to learn their needs. Occasionally you may work for several days at a client facility. Travel requirements and durations will vary by project and the role you are playing in it.

Given our size, most staff perform a wide range of duties. While this position will emphasize GIS System Implementation, it is likely to entail most aspects of GIS technology and IT consulting. In a typical week you are likely to be troubleshooting technical issues, discussing needs and designing solutions with clients, mentoring colleagues, performing all levels of GIS work, creating documentation, building virtual servers and more. To be successful in this position you will need to be equally comfortable performing advanced technical tasks, showing clients and colleagues how to do the same, and managing all aspects of a project including budgeting, scheduling and execution.