

JOB DESCRIPTION:



NorthSouth GIS LLC
244 S. San Pedro St.
Suite 202
Los Angeles, CA 90012
www.northsouthgis.com

GIS Systems Architect

Description:

The GIS Systems Architect is responsible for being NorthSouth GIS LLC's (NSG) server-related hardware and software expert. Such expertise will be used to design and implement hardware/software configurations appropriate for use with Enterprise GIS solutions implemented by NSG. These designs will address expected system loads, security needs, use cases, availability requirements and budgetary limitations. The GIS Systems Architect is also expected to be NSG's technical lead for ArcGIS for Server configuration and troubleshooting, implementing HTTP/SSL for GIS web viewers, optimizing server performance, managing Reverse Proxy rules in IIS/ARR and more. In addition to server/ArcGIS for Server expertise, the GIS Systems Architect is expected to be a well-rounded GIS and IT professional able to handle a wide range of technical tasks related to Enterprise GIS implementations. The GIS Systems Architect is expected to be an excellent communicator that can brainstorm with client and NSG resources, document solutions and proposals, assist with cost estimations and liaise with people of widely varying technical aptitude. The GIS Systems Architect reports to the Chief Operating Officer of NSG, but will often take direction from, collaborate with, and report status to NSG's Services Manager and Solutions Manager.

Responsibilities:

- Provide a significant proportion of billable GIS Systems Architect service hours to our clients, both off-site and on-site, as needed
- Review project requirements and recommend appropriate hardware and/or software configurations
- Install, configure, test, troubleshoot, and performance tune ArcGIS for Server-based Enterprise GIS Solutions
- Perform software and hardware planning, licensing, acquisition, troubleshooting, and maintenance
- Vigorously and enthusiastically participate in GIS design and troubleshooting discussions with clients and teammates via in-person meetings, site visits, phone calls, video conference sessions and e-mail – many times per week
- Explain technical issues and solutions to audiences of widely varying technical abilities clearly and patiently
- Write clear and sometimes extensive user and administrator documentation, training materials and technical portions of project proposals, with limited need for editing
- Design and implement Backup, Network Security and Disaster Recovery strategies
- Take ownership of NSG's existing small virtual server and workstation infrastructure and ensure that it is kept up to date, secure and correctly licensed. Advise our clients on similar issues.
- Evaluate new/emerging technologies and how they might be of use to NSG and NSG's clients
- Establish and maintain strong, healthy professional relationships with clients and NSG teammates, partners and affiliates, across multiple geographies
- 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 – this is a highly dynamic position

Required Skills and Experience

- Experience with planning and managing a company or departmental IS infrastructure
- 10+ years of experience with Esri / ArcGIS software (Desktop and Server technologies)
- *Strong* knowledge of ArcGIS for Server software including installation, configuration, optimization and creation of all currently available service types
- 5+ years of advanced expertise with MS SQL Server / Oracle for versioned enterprise geodatabases

- Significant experience across a broad range of IT related skill areas including networking, security, server installation, desktop and handheld support, enterprise applications, web applications and desktop development
- Experience with design, integration and implementation of ArcGIS for Server-based enterprise GIS solutions
- Ability and willingness to create complete and detailed documentation (architecture, troubleshooting, procedures, specifications, proposals etc.)
- Experience with VMWare and Hyper-V virtual server implementation, optimization and management
- Excellent English, both written and spoken, and comfort communicating with a variety of clients, staff, and other professionals (you will need to communicate clearly, vigorously and frequently)
- Bachelor's Degree in Computer Science, Geography, GIS or other relevant field

Helpful Skills and Experience:

- Experience in configuring/implementing/customizing GIS web viewers
- Experience in administering/configuring/implementing/customizing Portal for ArcGIS and ArcGIS Online
- DBA experience with SQL Server / Oracle
- Prior consulting experience including significant interaction with clients
- Experience with IIS configuration including SSL/HTTPS and using ARR with Reverse Proxy Servers
- Moderate proficiency with Python and ArcPy
- Microsoft Workflow Foundation and/or Geocortex Essentials Workflows
- Experience creating ArcGIS Server geoprocessing services

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, currently in the US but potentially overseas in future)
- 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:

- Full time, salaried position with benefits
- Compensation commensurate with experience
- Equal opportunity employer
- All candidates must currently be American citizens, or Permanent Residents.
- **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 – it is your responsibility to ascertain your eligibility)

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 are located in the heart of Los Angeles in the vibrant 'Little Tokyo District', within walking distance of Union Station and the Gold Line metro. We have been around for 16 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 our technology.

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 building clever and useful tools, solving problems and doing *real* things with GIS, it can be very rewarding.

Most days you will probably work from our office, in Los Angeles, 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. It is possible that you will need to spend a couple of weeks on-site in some situations, though thus far this has not been a common need. 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, performing all levels of GIS work, creating documentation, building virtual servers and more.

Our clients frequently win the prestigious Esri 'Special Achievement if GIS' award and many times they acknowledge the roles that we play in helping to position them for this honor. In 2015 two of our clients received this award at the International Esri User Conference. Other clients have also won the American Association of Port Authorities awards, so you will be joining a firm of dedicated individuals not only passionate about our client's success, but actually able to deliver in a manner recognized by their peers.

If you possess the required skills and experience, are a good listener, quick learner and excellent collaborator who will flourish in a fast paced consulting environment please submit **your resume, cover letter and salary requirements by email:**

To: **hr@northsouthgis.com**
Subject line: **GIS Systems Architect**