JOB DESCRIPTION:

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 President of NSG, but will often take direction from, collaborate with and report status to NSG's Services Manager and Solutions Manager.

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**

Responsibilities:
- Provide a significant proportion of billable GIS Implementation Systems service hours to our clients, 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:
- Experiencing configuring/implementing/customizing GIS web viewers
- 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 a Citizen of the United States or have US Permanent Resident Status
- **All candidates <u>must</u> be eligible to obtain a Transportation Workers Identification Credential (TWIC)** (see http://www.tsa.gov/sites/default/files/publications/pdf/twic/immigration_status_documents.pdf to determine your eligibility – it is your responsibility to ascertain your eligibility)