JOB DESCRIPTION

JOB TITLE: Senior Systems Software Engineer
DEPARTMENT: Technical Services at South Sound 911
REPORTS TO: Lead Software Developer
EEO category 3

SUMMARY:
As part of South Sound 911 Technical Services, and under the direction of the Lead Software Developer, this technical position provides design, implementation, and data and systems analysis and maintenance expertise. Work includes planning, designing, developing and maintaining information technology applications to South Sound 911 and the agencies it supports. Work is applied to complex situations, is primarily intellectual in nature and results in creative and varied solutions. A Senior System Software Engineer must use independent judgment and initiative and appropriately solicit the expertise of colleagues while providing input and guidance to other Software Developers.

ESSENTIAL FUNCTIONS:
Strong understanding of current information technologies as well as a structured development environment; Must have the technical skills to work with current technological tools and perform basic problem solving independently; Work with a wide variety of data-driven applications, including service-based, client-side and web applications; Strong personal and communication skills to develop effective working relationships with peers, senior staff and customers, and also demonstrate independent judgement and initiative when working alone.

Design and implement technical solutions for emergency services personnel in order to contribute to meeting the development team's goals.

Enhance existing systems in order to contribute to meeting the development team's goals; lead and participate in system architecture design and documentation.

Provide documentation about architectural requirements and design; provide specific checklists of architectural requirements for use during design and design review.

Provide training to software developers about the purpose, meaning, and value of architecture; provide advice to developers on using the architecture during project design.

Provide specific guidelines for architectural requirements and implementation; provide code examples that conform to the use of the architecture.

Work independently as well as with team members when appropriate in order to contribute to meeting the development team's goals.

Have knowledge of our customers' business and department functions within South Sound 911.

Contribute to building expertise and technical knowledge among our internal and external customers through customer service, training, and documentation.

Participate in process improvement activities in order to contribute to improvement and maintenance of the development team.

Monitor and analyze the health of a subset of our systems and processes in order to maintain system health; advocate for a given system(s) or processes when their health is poor in order to maintain system health.

Keep up-to-date on current development tools, technologies, methodologies, and platforms. Research and recommend new technologies, frameworks, and languages as relevant to the development team's goals.

Review work done by team members and provide feedback in order to contribute to meeting the development team's goals; lead and participate in peer-mentoring in order to contribute to improvement and maintenance of the development team; assist with mentoring and training other Software Developers.

QUALIFICATIONS:
A Bachelor's degree in computer science or a related STEM field (Science, Technology, Engineering, and Math) and/or equivalent work experience. Four years of professional application development experience directly supporting public safety information technology systems.

REQUIRED ABILITY, KNOWLEDGE AND EXPECTATIONS:
Fluent use of the English language
Understand and follow written and verbal instructions.
Understand and interpret complex rules and procedures.
Read, interpret, explain, apply and follow applicable laws, ordinances, codes, regulations, policies and procedures.
Work appropriately with confidential material and information.
Work with speed and accuracy.
Follow safety rules and regulations.
Ability to decompose complex problems into manageable units of work
Exercise a high degree of independent judgment in problem solving and decision-making related to professional software development duties.
Communicate efficiently and effectively both orally and in writing using tact, patience and courtesy.
Maintain cooperative and effective working relationships with others.
Analyze situations quickly and adopt an effective course of action.
Organize work with many interruptions and multiple tasks to meet schedules and timelines.
Be reliable, dependable and report for work on a consistent basis.

LICENSES, CERTIFICATES AND OTHER REQUIREMENTS:
Proficient with standard suite of Microsoft Office software
Experience with C#/.NET languages or Java.
Experience using SQL or LINQ to develop data-driven applications.
Experience with software development life cycle best practices, including coding standards, code reviews, source control management, and build processes.
Unit test and debugging experience

PHYSICAL REQUIREMENTS:
The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to sit at a computer terminal, frequent walking both indoors and out; use hands to finger, handle, or feel and talk or hear. The employee is frequently required to reach with hands and arms. The employee is occasionally required to stand, stoop, or kneel. The employee must occasionally lift and/or move up to 25 pounds. Specific vision abilities required by this job include close vision, distance vision, peripheral vision, depth perception and ability to adjust focus.

WORKING ENVIRONMENT: EDIT ONLY AS NEEDED
Office environment with frequent interruptions. The noise level in the work environment is usually quiet. This position will interact with employees and customers on a daily basis. Office environment is subject to 24/7 emergency call out and traveling to different locations to conduct work

MACHINES/TOOLS/EQUIPMENT/WORK AIDS:
Personal computer, copy machines, telephone, fax machine, E-mail, calculators, and printers.

POTENTIAL HAZARDS:
The hazards are consistent within an office environment.

ANALYSIS OF PHYSICAL DEMANDS OF POSITION:

Activity	Percentage of time	Activity	Pounds
Standing	10% of time	Pulling & Pushing	25 lbs.
Walking	10% of time	Lifting	25lbs.
Sitting	80% of time	Carrying	25lbs.

The following abilities are required to perform the essential job functions:

Hearing	YES
Seeing	YES
Depth Perception	NO
Color Vision	NO

Seldom to occasionally the position will require the following activities: Stooping, Crouching, Crawling, Climbing, Balancing and Kneeling.

ADDITIONAL COMMENTS:
The statements herein are intended to describe the general nature and level of work performed by employee(s) in this job title. The statements are not a complete list of responsibilities, duties and skills required of employee(s) in this job title. Furthermore, the job description does not establish a contract of employment and is subject to change at the discretion of the agency.

PREPARED BY: Laura Lakowske, Recruiting Coordinator

REVIEWED BY:

DATE: 11/4/20

Revision date(s)