Title: **Database Engineer/Full Stack Developer**   **Reports to**: Data Systems Manager

Department: Software Engineering

Summary - Job Responsibilities – Activities:

Functions:

- Develop, debug, and support production database system including backups, stored procedures, triggers, schema design, and performance tuning
- Design, develop, and debug production web sites and web services under the direction of management and requirements from customer groups
- Responsible for the day to day data file processing of the production database
- Archiving of data files and capacity planning of network server drive space.
- Monitor consistency of production and archive database backups
- Interact with Software engineers and Field Service in support of legacy systems
- Lead effort to convert and maintain browser independence and W3C standards
- Support service personnel and customers with data acquisition system, data queries, and web site issues
- Maintain a proactive posture towards reusability and quality
- Proactively define and suggest improvements to the web and database environments as well as other unrelated areas
- Participate in investigative work pertinent to system design including feasibility studies, research, and designs of experiments to prove out project concepts
- Stay current with new and emerging technologies and evaluate the feasibility of integration with current tools and technologies in use
- Support of Windows Server and Linux platforms running production web sites, web services and databases
- Other duties as assigned
- Assist in developing and maintaining software documentation
- Has authority to implement process improvements once approved by department manager
- Has authority to obtain material from internal stock room and obtain material from outside vendors through purchase requisitions up to limit set by supervisor and with approval signature of supervisor or project manager
- Has authority to propose capital equipment purchases to manager
- Has authority to recommend product vendor sources for equipment or material to Purchasing Department or manager
- Has authority to choose best methods to design, build and test software
- Has authority to implement changes to functional and test specifications
- Follow company purchase authorization procedures
- Follow Database/Web Engineering Manager's recommendation

Education - Experience:

- B.S. degree in Computer Science, Electrical Engineering, Computer Engineering or a related discipline and 4-7 years in practical software engineering or M.S. degree and 2-5 years in practical software engineering.
- C# and/or SQL programming

Required Skills, Competencies, Authorities and Training Needs:

- Thorough knowledge of Relational Database Management Systems
- Experience with MS SQL Server
- Experience with PostgreSQL on the Linux platform is a plus

- Experience with T-SQL programming language
- Thorough knowledge of Object Oriented programming
- Advanced knowledge of the C# programming language
- Advanced knowledge of the ASP.NET framework and familiarity with Linq
- Familiarity with interpreted languages like Perl, Python is a plus
- Advanced knowledge of web browser/server architecture and design techniques
- Familiarity with JSON and RESTful APIs is a plus
- Advanced knowledge of HTML language and page design techniques
- Experience with Javascript and the manipulation of the Document Object Model
- Knowledge of HTML5, and canvas is a plus
- Familiarity with JQuery, AJAX, D3, and React is a plus
- Prior experience with charting engines is a plus
- Prior experience with converting websites for mobile devices is a plus
- Prior experience with cloud migration (e.g. AWS) is a plus
- Creativity and innovation skills required to solve new problems
- Written and verbal communication skills
- Analytical skills
- Ability to work independently
- Take day-to-day instructions from Database/Web Engineering Manager
- Interact with other members in the Software Engineering Group
- Written and oral communications with Marketing, Sales, Applications, Engineering, Manufacturing, Service, and department managers/directors to define and modify product or process specifications.
- Written and oral presentation of project schedule and status to Engineering or Project Managers on, at least, a monthly basis.
- Written and oral cmmunication with customers or potential customers at the level and frequency determined by Engineering or Project Managers

AMSC is an EEO M/F/D/V

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