

**CLARKSVILLE-MONTGOMERY COUNTY SCHOOL SYSTEM  
CLARKSVILLE, TENNESSEE  
JOB DESCRIPTION**

**Job Title: Senior Computer Programmer**

**Department: Technology**

**Exempt Position: Administrator Pay Grade 502**

**Job Description**

**Date Reviewed: November 2019  
Officer**

**Reports To: Chief Technology Officer**

**Purpose of Job**

The purpose of this job is to perform administrative/technical functions related to the design and programming of computer systems and to provide general support to the Chief Technology Officer. Duties and responsibilities include project management; providing communication to computer programmers; designing, programming, and maintaining computer software; generating reports; data mining; and providing support for computer users.

**Essential Duties and Responsibilities**

**The following duties are normal for this job. These are not to be construed as exclusive or all-inclusive. Other duties may be required and assigned.**

Manages project implementation as primary contact point for scheduling, developing, testing, and training and provides leadership to all parties involved in the project.

Works with the Chief Technology Officer to provide leadership to computer programmers.

Works with the Chief Technology Officer to facilitate effective communication to and on behalf of the computer programmers.

Maintains a comprehensive knowledge of various computer equipment and software programs.

Communicates district processes in a technical manner to computer programmers.

Knows and understands the procedures and processes involved in the administration of the district, particularly in the areas of finance, human resources, and student information.

Collects and analyzes information for development of new systems and for modification of existing systems.

Designs and creates software solutions, to include planning, interface design, coding, and implementation, utilizing knowledge including, but not limited to, .NET Framework, MVC Platform, SQL, as well as HTML and JavaScript.

Designs, creates, and maintains relational databases to work in connection with locally developed software.

Provides system users with hardware/software support and instruction on system utilization.

Performs maintenance functions on computer programs and reports; tests/troubleshoots programs for errors.

Designs and creates scannable forms for large-scale data collection.

### **Additional Job Functions**

Performs other duties as required.

### **Minimum Training and Experience Required to Perform Essential Job Functions**

- Bachelor's degree in Computer Science or Computer Programming with a minimum of five years of programming and supervisory experience.
- Any equivalent combination of education, training, and experience which provides the requisite knowledge, skills, and abilities for this job.
- Valid driver's license and the ability to provide reliable transportation to provide needed services to all CMCSS locations.

### **(ADA) MINIMUM QUALIFICATIONS OR STANDARDS REQUIRED TO PERFORM ESSENTIAL JOB FUNCTIONS**

**PHYSICAL REQUIREMENTS:** Must be physically able to operate a variety of automated office machines and computer equipment which includes personal computer, printer, calculator, telephone, etc. Must be able to use body members to work, move, or carry objects or materials. Must be able to exert up to twenty pounds of force occasionally, and/or up to ten pounds of force frequently. Physical demand requirements are at levels of those for Active work.

**DATA CONCEPTION:** Requires the ability to compare and or judge the readily observable functional, technical, structural, or compositional characteristics (whether similar to or divergent from obvious standards) of data, people, or things.

**INTERPERSONAL COMMUNICATION:** Requires the ability of speaking and/or signaling people to convey or exchange administrative information. Includes giving assignments and/or directions to co-workers or assistants.

**LANGUAGE ABILITY:** Requires the ability to read a variety of informational documentation, directions, instructions, and methods and procedures related to the job of Senior Computer Programmer. Requires the ability to understand and communicate within computer languages

utilizing the .NET Framework, MVC Platform, and SQL, as well as HTML and JavaScript. Requires the ability to write reports with proper format, punctuation, spelling, and grammar, using all parts of speech. Requires the ability to speak with and before others with poise, voice control, and confidence using correct English and a well-modulated voice.

**INTELLIGENCE:** Requires the ability to learn and understand complex principles and techniques; to make independent judgments in absence of supervision; to acquire knowledge of topics related to the job of Senior Computer Programmer.

**VERBAL APTITUDE:** Requires the ability to record and deliver information to supervisors and officials; to explain procedures and policies; and to follow verbal and written instructions, guidelines and objectives.

**NUMERICAL APTITUDE:** Requires the ability to utilize mathematical formulas; add and subtract totals; multiply and divide; determine percentages; determine time and weight; and utilize statistical inference.

**FORM/SPATIAL APTITUDE:** Requires the ability to inspect items for proper length, width, and shape, visually with office equipment.

**MOTOR COORDINATION:** Requires the ability to coordinate hands and eyes while using automated office equipment.

**MANUAL DEXTERITY:** Requires the ability to handle a variety of items, office equipment, control knobs, switches, etc. Must have the ability to use one hand for twisting or turning motion while coordinating other hand with different activities. Must have average levels of eye/hand/foot coordination.

**COLOR DISCRIMINATION:** Requires the ability to differentiate colors and shades of color.

**INTERPERSONAL TEMPERAMENT:** Requires the ability to deal with people (i.e. staff, supervisors, general public, and officials) beyond giving and receiving instructions such as in interpreting departmental policies and procedures. Must be adaptable to performing under minimal stress when confronted with an emergency related to the job of Senior Computer Programmer.

**PHYSICAL COMMUNICATION:** Requires the ability to talk and/or hear: (talking - expressing or exchanging ideas by means of spoken words). (Hearing - perceiving nature of sounds by ear).

**ATTENDANCE:** A regular and dependable level of attendance is an essential function for this position.

### **KNOWLEDGE OF JOB**

Has considerable knowledge of the policies, procedures, and activities of the School System and Technology practices as they pertain to the performance of duties relating to the position. Has thorough knowledge of Technology practices as necessary in the completion of daily responsibilities. Knows how to develop and administer operations and staff plans and objectives for the expedience and effectiveness of specific duties of the department. Knows how to keep abreast of any changes in policy, methods, computer operations, equipment needs, etc. as they pertain to department operations and activities. Able to effectively communicate and interact with supervisors, members of the general public, and all other groups involved in the activities of

the department. Able to assemble information and make written reports and documents in a concise, clear, and effective manner. Has good organization, human relations, and technical skills. Able to use independent judgment and work with little direct supervision when necessary. Has the ability to comprehend, interpret, and apply regulations, procedures and related information. Has comprehensive knowledge of the terminology, principles, and methods utilized within the department. Has the mathematical ability to handle required calculations. Knowledgeable and proficient with computers. Able to read, understand, and interpret financial reports and related materials.

The Clarksville-Montgomery County School System is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the school system may provide reasonable accommodations to qualified individuals with disabilities and encourages both prospective and current employees to discuss potential accommodations with the employer. Signatures below indicate the receipt and review of this job description by the employee assigned to the job and the immediate supervisor.

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**Employee's Signature**

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**Supervisor's Signature**

\_\_\_\_\_  
**Date**

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**Date**