BUTLER COUNTY SCHOOLS

STEM (SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH) SPECIALIST

JOB DESCRIPTION

QUALIFICATIONS:

- Master's degree from an accredited institution.
- Alabama certification in Educational Leadership and Supervision.
- Minimum of three to five years teaching experience with knowledge and experience in curriculum development and integration of educational technology.
- Experience working with adult learners and knowledge of various coaching models is a plus.
- Experience in public school administration is preferred.

REPORTS TO: Superintendent

JOB GOAL

The STEM (Science, Technology, Engineering and Math) Specialist will be expected to enrich and support teaching and learning while strengthening the STEM skills of students, teachers and staff and assist classroom teachers in the incorporation of cooperative learning strategies, authentic assessments, technology integration, and problem-based learning into lesson and unit plans.

SUPERVISES:

Employees as designated by the Superintendent

PERFORMANCE RESPONSIBILITIES:

- The STEM Specialist will coordinate the system-wide STEM program to develop and implement a focus on sharing practices, analyzing data, targeting interventions and creating a culture of collaboration to ensure professional growth and student learning.
- Assess the skill level and work products (e.g., plans, assessments) of teachers in areas related to STEM instructional approach priorities: cooperative learning strategies, authentic assessments, technology integration, and problem-based learning.
- Work with school leadership and District Instructional Leadership Team to design a comprehensive professional development and support plan based on teacher needs
- Plan, design, and lead differentiated PD sessions aligned to the STEM standards.
- Work with TEAMS Contract Teachers to plan, approve, and implement professional development plans in accordance with TEAMS guidelines.
- Conduct observations of teachers and provide high-quality coaching to teachers using strategies that align to their development needs
- Coordinate external professional development opportunities for teachers, including Butler County School System required PD, as well as other self-arranged partnerships, as needed
- Collaborate with teachers and teacher teams in curriculum development to plan problem based units, performance assessments, opportunities for authentic STEM integration, and meaningful cross-curricular connections
- Coordinate the development and execution of design challenges or interdisciplinary units and performance tasks

- Participate in grade-level, department and district level meetings to coordinate curricular projects and provide targeted support towards STEM instructional approaches
- Facilitate involvement of external partners in classrooms across the curriculum (i.e., authentic experiences, audiences, and assessments)
- Support non-STEM subject teachers in understanding and infusing STEM-related experiences, NGSS and CCSS practices, and the Engineering Design Cycle in meaningful and appropriate ways
- Identify gaps in student performance to plan strategic academic interventions for targeted students, to increase participation in advanced STEM coursework
- Provide engaging STEM related enrichment to increase interest, experience, and develop STEM habits of mind (e.g., robotics, science club, etc.)
- Promote STEM awareness and engagement through targeted partnerships and activities (STEM Exploration Nights, Student Competitions, etc.) that enhance academic achievement across the curriculum
- Other duties as assigned by Superintendent

KNOWLEDGE, SKILLS, AND ABILITIES:

- Willingness to participate in PLCs and plan with colleagues around new and innovative approaches for implementing instructional activities
- Willingness to collaborate with area universities and organizations on instructionally linked student activities and projects
- Demonstrated ability and/or willingness to work collaboratively with a diverse school community to promote STEM awareness and engagement through targeted partnerships and activities
- Demonstrated excellence in interpersonal skills which include both oral and written communication
- Predisposition to be proactive and a self-starter; comfort with ambiguity and ability to troubleshoot and to devise targeted, ad hoc solutions
- Willingness to be a life-long learner; faculty will be expected to participate in summer, before, during and after school professional development activities throughout the year

PHYSICAL REQUIREMENTS:

Medium Work: Exerting up to 50 pounds of force occasionally and/or up to 20 pounds of force frequently and/or up to 10 pounds of force as needed to move objects.

TERMS OF EMPLOYMENT:

Salary and benefits shall be paid consistent with the System's approved compensation plan.
Length of the work year and hours of employment shall be those established by the System.

EVALUATION:

Performance of this job will be evaluated in accordance with provisions of the Board's policy on evaluation of personnel