K-16 STEM

Instruction, Curriculum Design and Program Development

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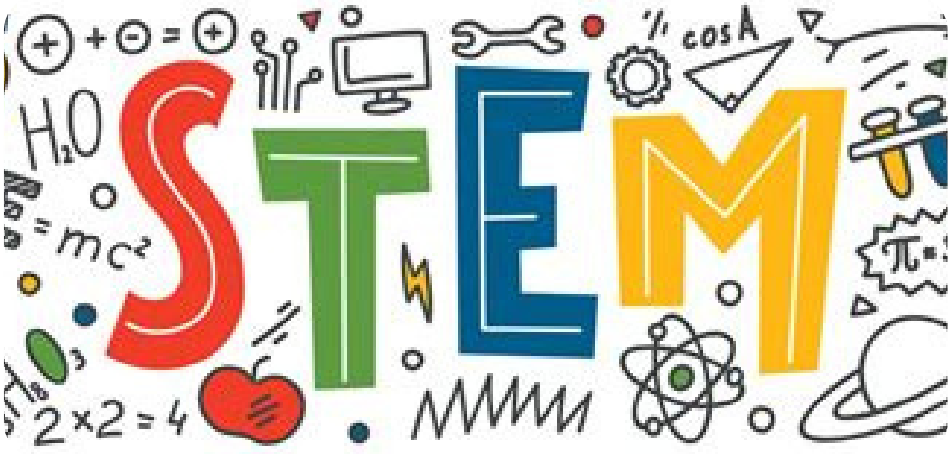


The Playbook For Success Foundation partners with K–16 schools, districts, universities, and youth-serving organizations to deliver high-quality STEM learning experiences and build sustainable STEM programs. Our work integrates hands-on STEM instruction and curriculum design to support deep scientific learning, strong instructional practice, and long-term program sustainability.

STEM Program Lead: Dr. Olayinka Mohorn-Mintah, Ph.D., STEM Education Specialist and Program Lead.

EXTRACURRICULAR AND ENRICHMENT STEM PROGRAMS

- Leadership and facilitation of STEM clubs, enrichment programs, and summer camps
- Robotics, engineering, and health science pathways
- Support for team-based STEM competitions and showcases
- College and career-connected STEM experiences

CORE SERVICES

K–16 STEM INSTRUCTION & CONTENT DELIVERY

- On-site or virtual STEM instruction (K–12 and undergraduate settings)
- Inquiry-based and phenomena-driven science lessons
- Modeling of scientific and engineering practices
- Project-based and problem-based learning experiences
- Support for school-day, after-school, and summer programs

CURRICULUM DESIGN & PROGRAM DEVELOPMENT

- Design of phenomena-driven instructional units
- Development of learning progressions, assessments, and instructional materials
- Alignment to state science standards and postsecondary expectations
- Support for K–12, dual enrollment, and undergraduate STEM courses
- Custom STEM program and enrichment design

The Playbook For Success Foundation supports educators and organizations across the STEM pipeline, from elementary foundations to undergraduate learning and enrichment programming.

WHO WE SERVE

School Districts	K–12 public, charter, and private schools	Community based and nonprofit organizations	After-school and summer STEM Programs	Colleges and Universities

BUILDING WELLNESS THROUGH STEM

The Playbook for Success is committed to whole-student development aligned with the 8 dimensions of wellness. Hands-on STEM learning promotes many areas of student growth.

Intellectual Wellness
- Hands-on problem-solving experiences develop curiosity, analytical thinking, and a growth mindset

Emotional Wellness
- Students build emotional resilience as they work together to navigate challenges and learn through experimentation

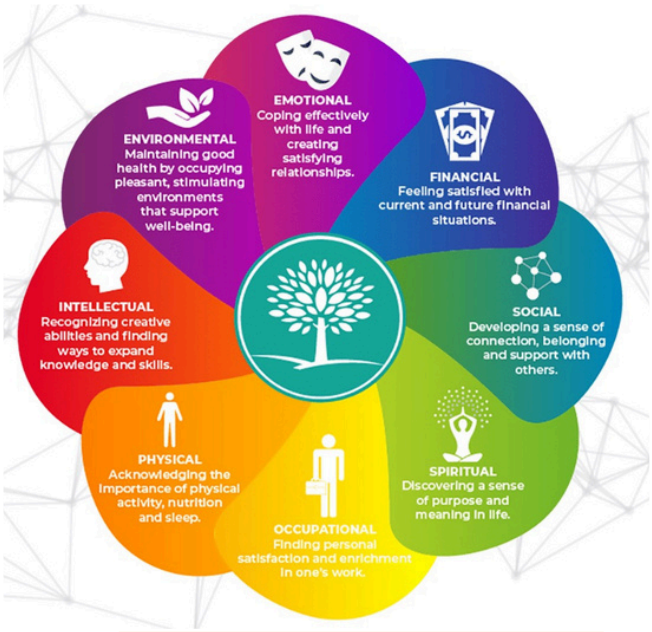
Social Wellness
- Collaborative STEM projects strengthen communication, teamwork, and interpersonal skills

Physical Wellness
- Engaging activities encourage students to move their bodies while learning

Environmental Wellness
- Students apply STEM skills to real-world challenges

Financial Wellness
- STEM skills increase economic mobility and access to high demand careers

Occupational Wellness
- Programs open opportunities for career exploration, build skills, and create an early sense of belonging in STEM fields



RESEARCH

A systematic review that analyzed two decades of research on STEM and social-emotional development in out-of-school time STEM programs found that after participation in hands-on programming:

- Participants showed significant growth in social-emotional skills, including confidence, relationships, motivation, engagement, self-awareness and cultural awareness
- STEM learning environments that intentionally include collaborative, experiential activities support social-emotional competencies like teamwork, self-efficacy, and identity development

Allen, P.J., & Noam, G.G. (2024). A Systematic review of STEM and social-emotional development in out-of-school time programs: Executive Summary. Institute for the Study of Resilience in Youth.

OUTCOMES

Students develop curiosity, confidence, and problem-solving skills through hands-on STEM learning, while educators and organizations strengthen capacity to deliver engaging, inquiry-based STEM instruction and sustain long-term programming.