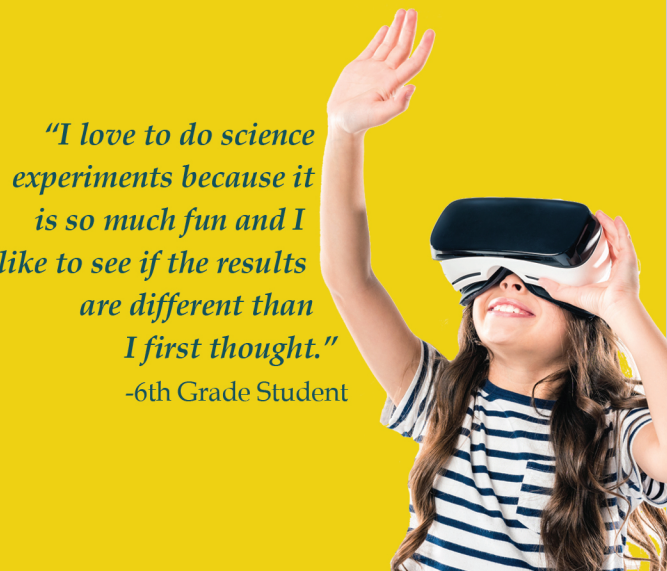## YOUR INVOLVEMENT

Founding STEAM Champions

Companies and individuals who are committed to investing in the promotion of advanced learning opportunities for New Mexico students and to creating sustainable partnerships among schools, business and industry, higher education and the community.

Implementation STEAM Partners

Business and industry leaders who will assist the program in providing real–world, hands–on experiences in STEAM and in establishing STEAM Advocacy (mentoring) programs.

STEAM Advocates

Adults from industry, community and college to serve as mentors (STEAM Advocates) for New Mexican students. Activities include providing opportunities to engage in hands–on STEAM experiences, career exploration and understanding how STEAM is part of our daily lives.

"I love to do science experiments because it is so much fun and I like to see if the results are different than I first thought."

-6th Grade Student

The fastest growing industries in Southwestern New Mexico rely heavily on proficiency in STEAM literacy skills: Mining, Health Care, Agriculture & Forestry, Food Services, and Real Estate

-State of the Workforce Report, 2017

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We are a 501c3 organization (pending) committed to promoting equitable learning opportunities in Science, Technology, Engineering, Art, and Mathematics (STEAM) for New Mexico students and providing real-world experiences for career exploration, innovation, problem solving, and critical thinking.

STEAMing AHEAD FOR SUCCESS

SCIENCE • TECHNOLOGY • ENGINEERING • ARTS • MATH

Bringing together youth and STEAM Advocates for fun, hands–on activities to build critical STEAM literacy skills

Inspiring underrepresented and underserved populations in STEAM fields to consider STEAM careers

Gain Valuable STEAM Literacy Skills

Science: inquiry, prediction, observation, questioning

Technology: production, research, innovation

Engineering: building, invention, problem solving

Arts: design, expression, planning, organization

Math: logic, reasoning, sequencing, measuring

"I have found that having strong reading and writing skills have been extremely useful in my science classes because I am able to understand the terminology and effectively communicate my research findings."

-12th Grade Student

The total number of NM students graduating with a STEM-related degree has increased each year but at a slower pace than non-STEM related

—NM Legislative Finance Committee, May 2016

Explore How STEAM Impacts Their Daily Lives and Prepare for College and Career

The goal of the STEAMing Ahead for Success Program is to provide access to real-world STEAM experiences in order to provide a FOUNDATION for future learning and career.

Engage in Hands-On Experiences in STEAM

Some examples of STEAM experiences that the STEAMing Ahead for Success Program and its STEAMAdvocates will promote at the K–12 level and beyond:

- Coding Club
- Robotics
- Engineering Club
- Summer STEAM Camps
- Cyber Defense Competitions
- STEAM Mentoring Cafe
- Research with a Scientist
- Math & Computer Science Teams

STEAM Advocates will assist students in exploring avenues for getting involved in STEAM activities and organizations

"Science is more than a school subject, or the periodic table...it is an approach to the world, a critical way to understand and explore, and engage with the world, and then have the capacity to change that world."

– Former President Obama, March 2015

"...too many students in poor, rural or underserved communities don't often get those opportunities <in STEAM>, which can be as elaborate as after-school apprenticeship programs -- or simple as meeting a pilot in a grocery store."

-US News, STEM Solutions, April 24, 2014

Establish Important Relationships with Industry Professionals through a STEAM Advocacy (mentoring) Program

- Pairing students with a STEAM Advocate who will provide mentoring, assistance on accessing STEAM opportunities,and/or guidance

- Training of STEAM Advocates provided by the STEAMing Ahead for Success Program in partnership with industry and school

- Developing a pipeline of young industry professionals (STEAM Advocates) who work to ensure the next generation of SW New Mexican students have real–world,hands–on experiences in STEAM

- Enhancing co-op programs and internships with industry that benefits students, teachers, employers, and universities

Develop Key Leadership and Communication Skills through Involvement with STEAM Advocates

The STEAMing Ahead for Success Program will help students develop the critical skills of Collaboration, Communication, Creativity, and Critical Thinking.

Employment in STEM occupations grew by 10.7% between 2009 and 2015 compared with 5.2% net growth in non-STEM jobs.

-US Bureau of Labor Statistics, Jan. 2017