



Colorado Alliance for the Development of STEM-related Careers

< <http://stem-alliance.org/> >

WHO	<p>Founding Organizations:</p> <ul style="list-style-type: none"> • Cherry Creek School District (Dr. Richard Charles, Director of the STEM Center at Overland/Prairie) • Colorado School of Mines (Mr. Burke Fort, Director of the 8th Continent Project) • Community College of Denver (Dr. Mary Anne Nickle, Interim Dean of Career Technical Education; and Ms. Gudryn Doherty, Dean of Math and Science) • Metropolitan State College of Denver (Dr. Jeffrey Forrest, Chair of the Aviation and Aerospace Science Department; and Dr. Sandra Haynes, Dean of Professional Studies)
WHAT	<p>A Collaborative Alliance of Colorado STEM Education and Workforce Interests</p> <p>Inclusive and Statewide – Open to similarly-interested Colorado school districts, work force centers, colleges, community colleges, universities, and other entities</p> <p>Activities will include:</p> <ol style="list-style-type: none"> 1. Vertical integration of STEM curricula among ADSC academic partners (K-PhD, including technician certifications) 2. Vertical integration of STEM internship programs among ADSC academic partners 3. Vertical integration of STEM curricula, internship programs and related activities with STEM workforce employers' requirements 4. Hands-on research projects for Colorado high school students 5. Hands-on research projects for Colorado undergraduate college students 6. Support for establishing STEM-related technician certification programs in Colorado 7. Special initiatives not being undertaken elsewhere within Colorado
WHY	<p>Colorado Paradox:</p> <ul style="list-style-type: none"> • Colorado ranks 2nd in USA in percentage of adults with college degrees, but is 47th in high school graduates going on to college • 1-in-4 dropout rate in Colorado high schools • This problem is amplified in STEM skill areas
WHERE	<p>Statewide</p>
HOW	<ul style="list-style-type: none"> • Initial motivators: Aerospace, energy and environment • Initial common denominators: Math skills, entrepreneurship skills, teaching skills, foreign language skills, plus appreciation for importance and opportunities of these skills • Avoid duplication of other STEM programs within Colorado • Focus on identifying best practices and sharing lessons learned within Colorado context
HOW MUCH	<ul style="list-style-type: none"> • Voluntary and self-supported, with partners covering their participation expenses • Scale up and special initiatives supported by grants and program income