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STEMCAP



Recruitment/Retention

Welcome/Introductory Reminder:

STEM Collaborative Action Plan Project Goal

“Develop a collaboration and a strategic action plan to increase the number and support the development of science, technology, engineering and math (STEM) students, graduates, teachers, professors and mentors within the California Innovation Corridor and the State of California, leveraging the resources and efforts not only of education and academia (K-20, public and private), but of industry and the informal science network”





Seamless Transitioning DRAFT Goal Statement



Every student in the corridor/State will be motivated, academically prepared and realize potential in STEM academic areas and will have the opportunity to participate in the STEM professional workforce upon completion of elementary, middle, high school, certificate, AA, transfer, BS and graduate degree.





Curriculum DRAFT Goal Statement



Create, fund, train and integrate relevant and inspiring STEM curriculum, activities, materials and courses into both formal and informal education, beginning at pre-school.





Retention/Recruitment DRAFT Goal Statement



Increase number of STEM graduates and educators by creating a positive image of the STEM worker and, using all available resources (public and private), build awareness of all California students, teachers and parents of the breadth, scope and quality of life benefits of STEM-related careers.





Retention/Recruitment Goal Statement Discussion



- *Address bi-lingual and gender issues*
- *Address perceived “inaccessibility” of lab scientist image*
- *Ensure challenging, relevant, hands-on STEM-related activities capitalizing on the excitement of experiential learning and the satisfaction of project-based methods of study*



STEMCAP Organizing Principle



- INSPIRE
- ENGAGE
- EDUCATE
- EMPLOY



Inspire



Address bi-lingual and gender issues in following:

- Bring all resources to table: education, industry, informal science
- Show relevance to 21st C issues-e.g. global warming
- Counter perceived/real difficulty of STEM study with image-breaking fun-looking STEM work
- Introduce teachers, parents, students to breadth of STEM careers, not just lab scientist
 - Show fieldwork, labwork, space work, enviro-variety





Inspire



- Build awareness campaign
 - Student interests (e.g. building things, global warming, industry sports campaign using STEM to enhance performance, etc)
 - Target parent groups (PTA, homeschoolers, etc.)
 - Articulate vast array of STEM careers (community college-U prep)
 - Share support resources (parents fear inability to help w/homework)
 - Parent/student field trips – STEM destinations, STEM speakers
 - Have them meet real STEM workers-all walks of life
 - Target students who think they can't succeed
 - Share project-based, experiential side of STEM to inspire



