

CPE STEM Task Force

Business Sector

New Ideas

January 31, 2007

- Coordination between STEM initiative and Economic Development Cabinet
- Expanding new and developing job markets is key / jobs for STEM graduates
- Internal discussion of how engineering resources are used in business and industry
- Work actively to attract other businesses to Kentucky. Explain why existing businesses located here. Advantages of being in Kentucky
- Lexmark substitute teacher initiative generates excitement about STEM in K-12
- Purdue University initiatives
- Engineers in schools to assist with teaching/visiting lecturers/ engineers loaned from businesses
- Project Lead the Way/ aggressive STEM curriculum
- Talk up the value of STEM within company and in community
- Way to link STEM participants in K-12, with scholarships in higher education, with business recruitment (pipeline approach)
- Focus groups of students at different stages of STEM pipeline to determine what motivates them
- Hire Kentucky – students need to know that Kentucky businesses will provide opportunities for placement in Kentucky
- Loan forgiveness program whereby student loans/ grants do not have to be repaid if graduates stay in Kentucky for two or three years post graduation
- STEM portfolio that tracks students from elementary to secondary to postsecondary (track ____ added at each stage) to career
- STEM value-added approach/ provide funding incentives at each stage and track progress through the pipeline/ longitudinal STEM program (Humana Infusion Project)
- Meat on Bones:
 - Tag-line – Business supports STEM will have impact on public awareness
 - Coal gasification/ pursue technology/ make Kentucky a leader
 - Innovation/ green projects/ energy efficiency
 - Bio-fuels/ energy independence
 - Legislation/ budget bills to provide funding for research in these areas
 - Economic incentives favorable to promoting business and industry investment in these areas/ location in Kentucky

- Nuclear industry/ auto manufacture (hybrids)
- Energy (global warming) could be call to action for Kentucky youth/ get them excited about STEM
- Emphasize clean technology
- Illustrate economic opportunities that careers in energy-related fields would bring/ motivate students – communicate industry needs in terms of graduates in certain fields