

ETIC 0709 RFP 2nd Quarter Report Comments

Ken Cone, Jo Oshiro, Michele Vitali 4/29/2008

PCC Manufacturing Road Trip

Project Abstract

“Portland and Mt. Hood Community Colleges, in partnership with the Manufacturing 21 Coalition, will host a series of “Road Trips” for high school students to members of the manufacturing cluster in Oregon. These road trips are intended to motivate students and demonstrate pathways for them so that more students successfully transition from education institutions to the workforce. The road trips are also designed to educate teachers and counselors so that they can support student success in STEM related career pathways.”

Summary

- PCC and Mt. Hood CC in partnership with Manufacturing 21 Coalition hosting “road trips” for high school students
- Trips intended to motivate students and demonstrate successful transition from education institutions to the workforce
- Road show also designed to educate teachers and counselors to support student success in STEM related career pathways

Project Results

- Students from four PPS high schools completed nine of 15 planned tours of six local manufacturing companies
- High schools include: Franklin, Benson, Wilson, and Alliance HS at Meek
- 318 students and 20 school staff visited the companies
- Companies include: Columbia Wire and Iron, ESCO, and Oregon Cutting Systems

Issues

- Initial challenge coordinating instructor schedules with tour schedules
- Pat Kraft discovered “...a tour to Columbia Wire and Iron ...did not stress college because most of their employees went through union apprenticeships for their training, which was done at the apprentice hall. We still need to keep in mind that not all continuing education comes from colleges.”

Alliances

- PCC and PPS Workforce Alliance acknowledge “...a need to educate high school students in manufacturing tracks about job opportunities and related education.”

Success Stories

- PCC has been holding day-long “Machine Manufacturing & Civil/Mechanical Engineering Student Career Day” weekly for high school students
- Students complete a project on the CNC machines plus an engineering activity
- Formal presentations on both projects presented during lunch
- Career Days funded through PAVTEC technical preparation program
- Link http://www.pcc.edu/pavtec/connections/07-08/student_career.htm

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Expenses

- \$4.6k (14%) spent to date, perhaps a little under plan to spend \$15.7K in FY08 and \$16.9K in FY09
- Billing for busses, substitute teachers, food running 30 days after event

Metrics Appendix

- participants to date:
 - 318 students
 - 20 high school staff
 - Three PPS high schools
 - Four local manufacturing companies
- Milestones
 - 2007 visits: 12/13/07, 12/18/07, 12/19/08
 - 2008 visits: 1/17/08, 2/15/08, 2/22/08, 3/5/08, 3/19/08

Reviewer's Formative Comments

- PCC Career Days seems like a great idea with ability to personally contact students, give them take away experience in professional CAD and manufacturing environment
- For next FY suggest the student survey be edited to ask more specific career questions similar to the GetReal survey. Using Zoomerang would be helpful, issue do we have time to help. We gave Pat a copy of the survey as example. There are at least two versions of the PCC survey from the different schools. Coordination might be difficult, but we should at least suggest changes.