

ETIC 0709 RFP 2nd Quarter Report Comments

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Redmond HS Students Pursuing a Career in Engineering (SPaCE) Project

Project Abstract

“In conjunction with Project Lead The Way® Redmond High School has established an Engineering Academy as one of six career academies on its campus. This proposal seeks to expand the RHS Engineering Academy by establishing course offerings in aerospace engineering, biotechnical engineering, civil engineering and architecture and by creating a middle school feeder program entitled Gateway To Technology®. This proposal seeks funding for professional development, equipment, and program recruitment.”

Summary

- PLTW academy is one of six on Redmond HS campus
- Project will add PLTW course offerings in aerospace and civil engineering and architecture
- Plan to send two teachers through PLTW's training summer 2008
- Project will also add Middle School feeder Gateway to Technology program

Project Results

- PLTW engineering faculty has conducted student luncheons and parents' nights designed to increase student enrollment, especially targeting female and minority students
- Sponsored eight female RHS students to OSU Women In Engineering conference
- Outreach resulted in “local cadre of engineering professionals to serve as an advisory board for the SPaCE project and the Engineering Academy.”
- Received commitments from two out of three middle schools to start feeder program “Gateway to Technology”

Issues

- Class forecasting in May will provide enrollment forecast, next report should show enrollment results
- Potential for classroom space to become an issue, may grow to need two new rooms and equipment, will know more after May forecasting
- Redmond HS currently has classroom space issue
- Obsidian middle school “remains unconvinced” of the need to implement Gateway to Tech program. Jo has asked Shay Mikalson how we can help. Engineering Academy PLTW teacher Juanita Clarno is working with Obsidian teachers to attend 2008 MS summer training at OIT.

Alliances

- Gateway to Technology middle school feeder program
- Oregon Mathematics and Science Partnership Program / Oregon Mathematics Leadership Partnership <http://ormath.mspnet.org/index.cfm/>

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Success Stories

- A PLTW team finished 4th in Automated Manufacturing category at state SkillsUSA competition
- PLTW students finished 3rd, 4th and 6th in technical drafting

Expenses

- \$478 (1%) spent to date is major concern, plan is to spend \$21.3K in FY08 and \$27.4K in FY09
- Expenses pending for sending two teachers to PLTW training at OIT and NY (aeronautical engineering training)

Metrics Appendix

- participants to date:
 - Eight RHS female students attended OSU Women in Engineering conference
 - Students attending PLTW recruiting
- Milestones
 - Equipment ordering appears behind schedule
 - Curriculum development appears to be behind schedule
 - Student recruiting accomplished in Dec 2007
 - Established one middle school site as host for Gateway to Technology per plan

Reviewer's Formative Comments

- Establishing middle school Gateway to Technology program starts kids thinking about technology before high school so they take a solid technology course in HS
- Ask about plan to spend funds for curriculum development, classroom facilities, and other expenses for remainder of FY2008
- Ask approximate number of students who attended PLTW recruiting activities