



**All-OPAS Workshop 2009:
ETIC Internal OUS Grant Reporting
February 4, 2009**

**Oregon State University 4-H
4-H Tech Wizards Program Replication**

\$251,000

Establish ongoing 4-H Clubs for underserved youth focused on science, engineering & technology

OPAS Vision for the Year 2020 - All Oregonians have the opportunity to choose and successfully pursue engineering or applied science as their field of study and career, thereby helping Oregon's industries innovate and prosper in the global economy.



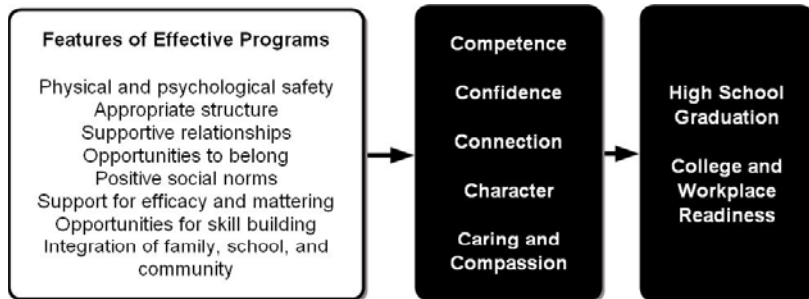
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- The goal of the project is to replicate the Intel 4-H Tech Wizards of Washington County in Umatilla, Marion, Jackson, and Deschutes Counties.
- Best Practice: integrating youth development principles into college and workforce readiness
 - [A Developmental Perspective on College and Workplace Readiness](#) (Childtrends, September 2008)
 - Community Programs to Promote Youth Development (Eccles & Gootman, 2002)
 - Youth Development Outcomes (Roth & Brooks-Gunn, 2003; Lerner, 2008)

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All-OPAS Workshop 2009: ETIC Internal OUS Grant Reporting *4-H Tech Wizards Program Replication Accomplishments*

Target Audience	Gr Level	Subject Areas	Number	Contact Hours	Results
Youth	4-12	robotics, digital media ,GIS, agricultural tech	712	Total 10,373 Mean 15	
Volunteers			53		
Teams	4-8	LEGO Robotics	34	Mean 100	Oregon

- Youth present at GIS users conferences in Chile and Dominican Republic
- Robotics and GIS work at Warm Springs Reservation
- Marshall High School (Alternative School) Youth Mapping Project

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Key Learnings**

- Focusing solely on college and workforce readiness will produce limited results
- Marginalized youth must realize that they matter, involves perceptions of personal power, efficacy, and contribution
- Cultural relevance and adaptation
- Parental and community engagement

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- Best News
 - Rapid growth of 4-H LEGO Robotics teams (34)
 - Community mapping projects grow efficacy
 - Expanding to wind energy
 - Warm Springs and Latino Populations
- Biggest Challenges
 - Long-Term Involvement
 - Mainstreaming Participation

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