

Tribal Education Outreach Program: Robotics, Rocketry & Tie-Dye Program

Issue No. 73

Program Coordinator

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Program Description:

The mission of the program is to promote science, technology, engineering and math (STEM) education at the elementary school level using Laboratory volunteers to conduct stimulating hands-on science activities with students and by engaging both students and teachers. The long-range goal of this initiative is to develop a student pipeline to provide a local source of qualified graduates in science and engineering.

Primary Outcomes:

Excite students about science and increase and enhance their understanding of basic science concepts through direct hands-on activities.

Areas Served:

Other;

Grade Level:

Elementary School (K-6th grade);

Leading Organization:

STBPO-EPDO

Program Address/Mailstop:

Mail Stop M709

Number of Individuals Served by the Program per Fiscal Year:

285

Year Program Started:

2003

Program Partners:

Los Alamos Women in Science
Northern NM Tribal Education Departments

Funding received:

1,000 from Portage, Inc.

Resources/Materials provided to program participants:

All students in the program get to create either a tie-dye shirt, a model rocket or a solar powered robot, which they keep.

Other funding sources:

Merrick & Company

Program Cost:

2K

Other learning objectives:

The hands-on approach creates a learning environment which allows teamwork, leadership and creative competition.

Best Practices:**How program outcomes are accessed:**

Through feedback from teachers (evaluation forms for teacher workshops) and students.

Reporting Requirements:

Year end report.

Cost per participant:

\$7 per student

Participant Application Process:

Schools selected by program manager based on number of students and funding available.

Program Recruitment Initiatives:**Targeted Diversity Groups:**

American Indian and/or Alaskan Native;

Type of Program:

Student Programs;

Program Website/URL:

Projected Length of Program:

One - Time Event;

Primary funding source:

Industry;

Program Evaluation:

Informal/Internal; Year end Report;
