




Oregon Pre-Engineering & Applied Science (OPAS) Initiative

- Increase the number of work-ready engineers and applied scientists by
- Increasing the number and diversity of Oregon students motivated and prepared for these college programs by
- Investing in programs both during and outside the traditional school day

Programs for the Traditional Classroom Day

Initiative	Key Examples	1-5 6-8 9-12
Pre-Engineering		<p style="text-align: center;">X</p>
Computer Science		<p style="text-align: center;">X</p>
Pre-Engineering	 <p data-bbox="984 1057 1535 1268">Gateway To Technology Introduction to EngineeringEngineering Design & Development</p>	<p style="text-align: center;">X</p> <p style="text-align: center;">X</p>

OPAS Investment Alternatives

	Alt 1	Alt 2	Alt 3	Alt 4
In-class Programs				
Pre-engineering - Grades 1 to 5	\$223,630			
Computer Science - High School	\$494,200	\$494,200	\$300,000	\$200,000
Pre-engineering - Grades 6 to 12	\$809,450	\$809,450	\$320,000	\$300,000
Subtotal	\$1,527,280	\$1,303,650	\$620,000	\$500,000
Out-of-School Time Programs				
Engineering Coaching And Mentorship Program	\$430,475	\$430,475	\$300,000	\$160,000
Programs targeting diversity in grades 4 to 8	\$849,882	\$600,000	\$350,000	\$300,000
Student internships	\$75,000	\$75,000	\$75,000	\$75,000
Growth of ECS OST Classes	\$170,493			
Growth in ECS via science projects & fairs	\$100,000			
Subtotal	\$1,625,850	\$1,105,475	\$725,000	\$535,000
Marketing	\$130,000	\$130,000	\$100,000	\$47,000
OPAS Oversight and Support	\$390,150	\$ 270,000	\$ 180,000	\$160,000
Totals	\$3,543,280	\$2,679,125	\$1,525,000	\$1,195,000

Students Impacted Based on hypothetical allocation of Alternative 1 Investment

	Year 1	Year 2	Subtotals
In-Class Programs			
Engineering is Elementary Program	1125	2775	3900
The Exploring Computer Science Curriculum	300	700	1000
Project Lead the Way Program	465	878	1343
Subtotals	1890	4353	6243
Outside of School Time Programs			
Engineering Coaching And Mentorship Program	370	641	1011
Oregon MESA (Math, Engineering, Science Achievement) Program	150	150	300
SMILE (Science Math Investigative Learning Experience) Program			
SMILE Clubs	90	120	210
Classrooms	450	900	1350
4H Clubs	75	150	225
Subtotal	615	1170	1785
Oregon Robotics Tournament and Outreach Program	301	890	1191
Saturday Academy			
Internship Program	34	34	68
After School Program	100	500	600
Subtotal	134	534	668
Northwest Science Expo System (NWSES)	1000	1350	2350
Total	6350	13441	19791