

The Engineering and Computer Science Pipeline: A Program for Change

Summary of OPAS Recommendations

January 9, 2009

<u>In School</u> Pre-engineering and Computer Science	EBL	01/09 POP	Total
Pre-engineering: rigorous pre-professional curriculum in classrooms			
▪ Leadership, administration, marketing and reporting	\$ 33,734	\$ 6,319	\$ 40,053
▪ Pre-engineering high school clusters (25 schools)	\$ 175,697	\$ 32,913	\$ 208,611
▪ Pre-engineering middle school clusters (10 schools)	\$ 42,167	\$ 7,899	\$ 50,067
▪ Highly qualified pre-engineering teacher expansion	\$ 56,223	\$ 10,532	\$ 66,755
▪ Under-represented students initiatives and support	\$ 33,734	\$ 6,319	\$ 40,053
▪ Communication and community engagement	\$ 7,028	\$ 1,317	\$ 8,344
▪ Evaluation	\$ 16,867	\$ 3,160	\$ 20,027
▪ Subtotal	\$ 365,451	\$ 68,459	\$ 433,910
Computer Science: capacity and infrastructure expansion			
▪ Leadership, administration, marketing and reporting	\$ 14,056	\$ 2,633	\$ 16,689
▪ Geographic expansion (25 schools)	\$ 105,418	\$ 19,748	\$ 125,166
▪ Regional centers of teaching excellence (4-6)	\$ 35,139	\$ 6,583	\$ 41,722
▪ Under-represented student initiatives and support	\$ 11,245	\$ 2,106	\$ 13,351
▪ Programming contest expansion	\$ 5,622	\$ 1,053	\$ 6,676
▪ Marketing and communications	\$ 4,217	\$ 790	\$ 5,007
▪ Evaluation	\$ 14,056	\$ 2,633	\$ 16,689
▪ Subtotal	\$ 189,753	\$ 35,546	\$ 225,299
In School Program Total	\$ 555,204	\$ 104,005	\$ 659,209
<u>Out of School Time</u> Programs for Project Based Learning			
▪ Programs for grades 4 through 8			\$ -
▪ Leadership, administration, and reporting	\$ 28,112	\$ 5,266	\$ 33,378
▪ Investments in programs focusing on engineering & technology	\$ 342,961	\$ 64,246	\$ 407,208
▪ Evaluation	\$ 22,489	\$ 4,213	\$ 26,702

▪ Subtotal	\$ 393,562	\$ 73,725	\$ 467,288
▪ Programs for grades 9 through 12			\$ -
▪ Leadership, administration, marketing and reporting	\$ 33,734	\$ 6,319	\$ 40,053
▪ Stipends to teacher/coaches	\$ 70,279	\$ 13,165	\$ 83,444
▪ Materials and registration for teams	\$ 42,167	\$ 7,899	\$ 50,067
▪ Training of teachers/coaches -- for all pre-engineering coaches	\$ 14,056	\$ 2,633	\$ 16,689
▪ Grants specific to particular "leagues" for training and related	\$ 28,112	\$ 5,266	\$ 33,378
▪ Evaluation	\$ 11,245	\$ 2,106	\$ 13,351
▪ Subtotal	\$ 199,592	\$ 37,389	\$ 236,982
▪ Internships			\$ -
▪ Leadership, administration, and reporting	\$ 2,811	\$ 527	\$ 3,338
▪ Internships for high school students with OUS faculty & industry	\$ 59,034	\$ 11,059	\$ 70,093
▪ Internships for teachers with faculty & industry	\$ 12,650	\$ 2,370	\$ 15,020
▪ Evaluation	\$ 2,811	\$ 527	\$ 3,338
▪ Subtotal	\$ 77,307	\$ 14,482	\$ 91,789
Out-of-School-Time Program Total	\$ 670,461	\$ 125,596	\$ 796,058
<u>Communications and Marketing: Students, Parents, Teachers, Counselors</u>			\$ -
▪ Leadership, administration, and reporting	\$ 5,622	\$ 1,053	\$ 6,676
▪ Web presence	\$ 12,650	\$ 2,370	\$ 15,020
▪ Print materials & distribution	\$ 15,461	\$ 2,896	\$ 18,358
▪ Speakers Bureau	\$ 14,056	\$ 2,633	\$ 16,689
▪ Other	\$ 8,433	\$ 1,580	\$ 10,013
Communication & Marketing Program Total	\$ 56,223	\$ 10,532	\$ 66,755
<u>Planning & Oversight</u>	\$ 28,112	\$ 5,266	\$ 33,378
Total	\$ 1,310,000	\$ 245,400	\$ 1,555,400