

Engineering and Technology Industry Council New Initiative Proposal Biennium from July 1, 2005 to June 30, 2007

Campus: Eastern Oregon University

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Summary of Proposal: \$100,000 for Community College Program (plus 50% match)

Goals

- Increase the number of community college students who transfer to science and engineering degree programs bachelors programs.
- Help prospective student to choose community college programs that better prepare them for science and engineering field.
- Leverage community college faculty and others to focus programs to prepare students for science and engineering careers.
- Efficiency and Access – Work with community colleges to provide efficient pipeline to four-year programs and community colleges plus eight ETIC campuses provide access to engineering & technology throughout Oregon.
- Global competitiveness – Knowledge and skills that keep family-wage jobs in Oregon.

Investment Description

- \$100,000 to leverage learning experiences at the community college level, so that students are better prepared to pursue engineering and science degree programs.

Results

This funding helps to reduce the urban/rural divide. Community college students in eastern Oregon predominately originated in rural and small town high schools. Rural and small towns are not generally considered a hotbed for technology development. As a result, these students may not have been exposed to the opportunities of computer science, engineering, or other technology related studies. Students may feel overwhelmed, discouraged, or “afraid to ask a stupid question” about science and engineering fields. Furthermore, community college curriculums and EOU’s requirements may not fit well together. This funding seeks to correct these two issues.

First, the funds continue outreach programs that start at the precollege level, but are tailored for a college level student. The outreach helps community college students to understand requirements of the sciences and engineering fields. Students will better understand course curriculums and the opportunities in the science and engineering fields. In addition, we will help students take advantage of programs available in the region, for example the Pacific

Northwest National Laboratory offers a summer program, with stipend, targeting community college students with the following goals:

- Increase leadership skills of talented community college students,
- Improve students' awareness and understanding of current science and technology,
- Increase students' awareness of current research in science, mathematics, engineering, and technology,
- Develop and sustain personal connections for professional development with scientists/researchers,
- Increase students' knowledge of career opportunities in technical fields,
- Broaden students' knowledge of DOE's research and program priorities, and
- Increase student participation from under-utilized groups.

Using proven techniques, we plan to develop and expand cooperative efforts with the regional forest, natural resources and science research agencies in and around the region.

Second, the funding helps EOU coordinate degree and transfer requirements with its two major community college partners, Blue Mountain Community College and Treasure Valley Community College and others. EOU, BMCC and TVCCC already have a longstanding working relationship through the Eastern Oregon Collaborative Colleges Consortium which facilitates seamless delivery of learning opportunities between the three campuses. As a result, these funds capitalize on and further enhance that existing relationship with a focus on the sciences and engineering disciplines.

EOU will use the funds to bring faculty from the three campuses together to create a more seamless learning experience for students.

The net result of this initiative is that more transfer students will arrive at EOU better prepared and with more options available to them to pursue science, technology, and engineering study.

Proposed Investment and Private Support Forecast (\$M)

	7/1/05- 6/30/06	7/1/06- 6/30/07	Total
Proposed OUS Investment (\$M)			
(1)	0.05	0.05	0.10
			0.00
Subtotal	0.05	0.05	0.10
Expected private support (\$M) (2)	0.03	0.03	0.05
Total (\$M)	0.08	0.08	0.15
New Faculty Supported (FTE) (3)	0.2	0.2	0.2
Notes:			
(1) Use as many lines as you need to give the proposed new investment(s)			
(2) Consistent with ETIC Private Support Policy dated 1-23-02.			
(3) To be hired with ETIC funds during 2005-2007 biennium.			

Metrics Forecast:

	Baseline	Projected			
	AY 99	AY06	AY07	AY08	AY09
(1)					
Additional community college transfers	n/a	5	8	11	15
ECS undergraduate student credit hours	-	200	320	440	600
ECS bachelors degrees granted	0.0	0.0	0.5	2.5	3.7
Notes:					
(1) List metrics including those relevant from Core Proposal template and others relevant to your proposal. If you use a metric that is also covered in your Core Proposal, the forecasted results that you give above should be the combined result of your Core Proposal and the investment described in this document.					