

City Funding Request for TAMUCC Electrical Engineering Program Dr. Jim Lee



Council Presentation
June 2014



Graduates from Local Higher Education Institutions, 2012



Local higher education institutions have boosted higher paying jobs and wages, and so closing the income gap with the nation.

	TAMUCC	Del Mar
Graduates	2,033	1,576
Annual "Wage Premium" Per Graduate in Coastal Bend	\$21,014	\$13,909
Total Annual Added Income for	721,01 4	¥±3,303
Coastal Bend	\$42,720,891	\$21,920,704



Significance of TAMUCC Programs



City funding for TAMUCC programs has generated *permanent* impacts with ROI's higher than any existing funded programs.

		Economic Impact (Annual)		
Program	Funding	Financial	Employment	
Innovation Center	\$1.5 mil	\$5 mil client revenues	113 jobs	
Engineering	\$1.0 mil	\$23 mil starting salaries	311 students (future jobs)	
Research Lab	\$0.3 mil			
UAV	\$0.6 mil	\$26 mil	120 jobs	
Small Business Internships	\$1.0 mil	\$5 mil salaries	6 FTEs; >105 interns	
TOTAL	<u>\$4.5 mil</u>	<u>>\$60 mil</u>	>650 positions	



Mechanical Engineering Earning Impact



Enrollment in the ME program is growing rapidly. Just the "added incomes" from the 38 graduates within the past 2 years exceed the \$1 million public investment.

	Graduates	% Total	Added Annual Income	Added Lifetime Income	Cumulated Additional Income by 2014	ROI
Total Graduates (2012-14)	38	100%	\$1,713,587	\$68,543,488	\$1,781,229	1.7
Graduates in Corpus Christi						
(avg. 30%)	11	30%	\$514,076	\$20,563,046	\$534,369	0.5
Graduates in Coastal Bend (avg. 39%)	15	39%	\$668,299	\$26,731,960	\$694,679	0.7



Projected Impact from Current Students



Given the current enrollment, the ME program will generate over \$4 million in added *local* income

	Students	% Total	Added Annual Income	Added Lifetime Income
Total Engineering Students, 2014	311	100%	\$14,024,358	\$560,974,336
Projected graduates in Corpus Christi	93	30%	\$4,207,308	\$168,292,301
Projected graduates in Coastal Bend	121	39%	\$5,469,500	\$218,779,991

Source: EMSI Analyst, 2014



Coastal Bend Labor Market Outlook



The EE program will close yet another local skill gap.

	2014	2014-23		
	# Jobs	Job Change	Annual Job Openings	
All Occupations	247,580	18%	11,582	
Mechanical Engineers	206	28%	15	
Electrical Engineers	238	23%	9	



Engineering Degrees' Annual Wage Premium, 2014



The "wage premium" for EE is even higher than that for ME

	Mechanical	Electrical
Median Wage for Engineering Degree		
Holders	\$80,974	\$101,816
Coastal Bend Overall Median Wage	\$35,880	\$35,880
Wage Premium from Degree	\$45,094	\$65,936

Source: EMSI Analyst, 2014