

Engineering & Technology Industry Council Performance Scorecard

Biennium 2005-2007

Portland State University

Maseeh College of Engineering and Computer
Science

July 2006

Fiscal Summary

FY06¹ as of 6/30/06

ETIC Investment⁶	Total Available²	YTD Actual³	Year-End Projection⁴	Projected Variance⁵
Dean's Reserve	\$76,334	\$93,723	\$93,723	-\$17,389
Enrollment Management	\$425,000	\$464,707	\$464,707	-\$39,707
OMSE	\$468,542	\$324,329	\$324,329	\$144,213
MCECS Academic Dept.	\$2,447,834	\$2,083,155	\$2,083,155	\$364,679
Top Tier Investment*		-\$635	-\$635	\$635
ETIC Total	\$3,417,710	\$2,965,278	\$2,965,278	\$452,432

* Adjustment for Compensated Absence Liability

- (1) Fiscal year ending June of indicated year.
- (2) Prior year carry-forward plus current fiscal year budget
- (3) Year to Date as of date shown in title.
- (4) Sum of encumbered and other forecasted expenses.
- (5) Year-End Projection vs. Total Available
- (6) Total for all ETIC funded programs at institution
- (2)-(5) Attach ETIC Financial Info spreadsheet with matching values

Private Support

FY06 as of 6/30/06

	Value
Northwest Center for Engineering, Science, and Technology ¹	\$2,983,883
Scholarships & fellowships	\$47,915
Research	\$100,705
Miscellaneous Support	<u>\$394,560</u>
Total Private Donor Support	\$3,527,063
Equipment Donations	\$ <u>750,000</u>
	Total
	\$4,277,063
	Annual Goal ²
	\$4,060,000
	Variance
	\$ +217,063

- (1) Eligible for matching by state of Oregon general obligation bonds, and so generated an equal amount of matching funds.
- (2) From ETIC Plan for 2005-2007 Biennium. For first year of biennium, Annual Goal is goal given in plan. For second year of biennium, Annual Goal is total goal for Biennium less private support received in first year.

Other Leverage -- Federal & Other Grants

As of 6/30/06

Granter	Description	Value
National Science Foundation	CAREER: Electromagnetic Scattering at terahertz Frequencies	\$566,428
National Science Foundation	Exploiting Live Plus Archive Data for Intelligent Transport	\$410,670
National Science Foundation	Adapting Information Using Superimposed Models and Structures	\$390,000
National Oceanic & Atmospheric Admin	Estuarine Habitat and Juvenile Salmon: Linkages in the Lower Columbia River	\$360,000
Office of Naval Research	Mid-Frequency Bottom Scattering Model Development and Validation	\$300,000
Office of Naval Research	Multistatic Active Target using an Invariance Constraint within an Evolutionary Formulation	\$290,680
Semiconductor Research Corporation	Scalable Co-Verification Based on Hardware IPs and Software Components	\$271,240
National Science Foundation	Instrument Development: An Integrated Optical Tweezers to Investigate Cell Biomechanics	\$214,226
OSU/ARO	Tactical Power Sources	\$189,000
OHSU/NOAA	Survival and Growth of Juvenile Salmon in the Columbia River Plume	\$150,000
National Science Foundation	NER/SNB Implementing Nanoscale, Memories with CMOS/Molecular Circuits	\$100,001
Google	Oregon SHORE Center: Software/Hardware Open-Source Research and Education	\$100,000
Oregon Department of Transportation	Seismic Vulnerability of Oregon Bridges	\$96,965
OHSU/Bonneville Power Administration	Historic Salem Habitat Opportunites and Foodweb Linkages	\$96,721
LSI Logic Incorporation	Test Effectiveness Wafer-Sort and Final Test Defect Screening and Adaptive Test	\$80,589
		Total Shown \$3,616,520
		OTHER \$1,169,467
		TOTAL \$4,785,987

New Grants FY06, ETIC Supported Faculty

Faculty Supported

As of 6/30/06

	Goal ¹	Actual ²
Hired in previous biennia ³ :	10	10
Hired in this biennium ⁴ :	4	4
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Total	14	14

(1) From ETIC Plan for '05-'07 Biennium.

(2) Those currently employed, not including those to be hired later in biennium. Stated as FTE. Includes any adjuncts supported by ETIC funds. Faculty receiving partial support from ETIC funds should be reported as partial FTE.

(3) Faculty hired before beginning of '05-'07 Biennium that are being supported by ETIC funds during '05-'07 Biennium.

(4) Faculty newly hired during current biennium using ETIC funds.

Undergraduate Category

As of 6/30/06

	AY99	AY03	AY04	AY05	AY06	AY09
Student Credit Hours						
– Goal	20,785	25,374	29,049	27,576	32,639	38,874
– Projected/Actual	20,785	26,945	27,035	32,011	28,415	
– Variance	0	1,571	-2,014	4,435	-4,224	
 Graduates						
– Goal	157	163	200	216	233	294
– Projected/Actual	157	169	192	221	211	
– Variance	0	+6	-8	+5	-22	

Graduate Category

As of 6/30/06

	AY99	AY03	AY04	AY05	AY06	AY09 ¹
Student Credit Hours						
– Goal ²	8,685	10,926	16,774	14,070	18,847	22,447
– Projected/Actual ³	8,685	15,679	13,451	12,535	11,798	
– Variance ⁴	0	4,753	-3,323	1,535	-7,049	

Graduates

– Goal ²	109	132	160	173	187	235
– Projected/Actual ³	109	154	216	240	181	
– Variance ⁴	0	+22	+56	+167	-6	

(1) Academic Years ending in June of indicated years.

(2) From ETIC Plan for '05-'07 Biennium.

(3) Actuals for prior years. Projections for years not yet complete, including future years. Projections may be different from goal. Values in the current year or prior years that are not final are indicated with an "E", e.g. 78E.

(4) Projected/Actual less Goal for all years where Goal established, including years with projected values.

Student Metrics

AY05-06 as of 6/30/06

	Prior Year	Current Year	
	Actual ⁷	Goal ⁶	Actual ⁷
Freshmen SAT/ACT ² :	59th	64th	62nd
Incoming grad-student GRE ³ :	80th	77th	NA
Women graduating ⁴ :	26%	22%	79 (20%)
Minorities graduating ^{4,5} :	21%	28%	54 (14%)
(Undergrad and Grad)			

(1) Academic year ending in June of indicated year

(2) Percentiles for freshmen that have declared relevant majors. If applicants are required to submit SAT scores, the percentile corresponding to the average composite SAT score of those submitting them. If applicants have choice of SAT and ACT, average composite SAT score and the average composite ACT score, converted to percentiles in each case, and combined as the weighted average of the two.

(3) Percentiles based on the average quantitative score over those submitting such scores; ignoring verbal and analytic scores.

(4) From engineering, computer science, and other programs directly benefiting from ETIC funding, stated as number graduating and as a percent of all those graduating.

(5) Racial and ethnic minorities who are US citizens or permanent residents.

(6) From ETIC Plan for '05-'07 Plan.

(7) If actual is not yet available, estimate is marked with "E". If estimate is not possible, "N/A" is shown.

Research Metrics

FY06¹ as of 6/30/06

	Prior Year		Current Year
	Actual ⁶	Goal ⁵	Actual ⁶
Research Faculty ²	90	90	91
Total Research Expenditures ³	\$4,447,332	\$4,500,000	\$5,937,608
Research Expenditures / Faculty ⁴	\$49,415	\$50,000	\$65,248

(College of Engineering)

- (1) Fiscal year ending in June of indicated year
- (2) Number of faculty members whose roles include research
- (3) Total dollars spent by ETIC-related departments towards research during academic year
- (4) Total Research Expenditures divided by Research Faculty
- (5) From ETIC Plan for '05-'07 Plan.
- (6) If actual is not yet available, estimate is marked with "E". If estimate is not possible, "N/A" is shown.

Intellectual Property Metrics

AY06¹ as of 6/30/06

	Prior Year	Current Year	
	Actual ⁸	Goal ⁷	Actual ⁸
Spin-offs ²		2	0
Patent Disclosures ³	17		2
Patents Awarded ⁴		1	0
Number of Licenses ⁵	4		0
Revenue ⁶		\$10k	\$0

(Numbers are for PSU)

- (1) Academic year ending June of indicated year.
- (2) Number of spin offs as reported to Association of University Technology Managers.
- (3) New patent applications, provisional or otherwise, during year.
- (4) Patents awarded by U.S. Patent Office during year.
- (5) Number of patent licenses or other royalty-generating intellectual property licenses granted to commercial entities
- (6) Revenue from patent and other intellectual property licenses granted to commercial entities.
- (7) From ETIC Plan for '05-'07 Plan.
- (8) If actual is not yet available, estimate is marked with "E". If estimate is not possible, "N/A" is shown.

National Ranking

As of 6/30/06

- NSA designates PSU Computer Science Department as Center of Academic Excellence in Information Assurance Education
- US News & World Report – PSU ranked in the top 40 institutions in Service Learning
- US News & World Report – PSU ranked in the top 28 institutions in Learning Communities
- US News & World Report – PSU ranked in the top 23 institutions in Senior Capstone
- US news & World Report – PSU ranked in the top 18 institutions in Internships/co-ops
- US News & World Report – PSU ranked in top 38 institutions in first-year experiences
- IAMOT – PSU ETM ranked in top 50 global centers for Research

Successes

- Continuing
 - Student Recruitment and Graduation
 - Sponsored Research Volume Increase
 - Constituent Building
 - Creative Facility Improvements
 - Recruitment of Excellent Faculty
- New
 - Transportation Center
 - The Northwest Electromagnetics and Acoustics Research Lab (NEAR - Lab)
 - Energy Research Center (Maseeh Prof. Gerald Sheble)

Challenges

- Continuing
 - Academic Program Approvals & Revisions
 - Macro-level Space Planning & Finance
 - Need for Systematic Decision-making for New Initiatives
 - Establish PhD degree program in MME
 - Achieve US News & World Report Ranking – AY '10
- New
 - Add POP supported faculty members in key Research Areas
 - Manufacturing 21 Coalition