

Engineering & Technology
Industry Council
Performance Scorecard
Biennium 2005-2007
Materials Science Institute
University of Oregon
June 30, 2006

Fiscal Summary

FY06¹ as of 6/30/06

	Total Available²	YTD Actual³	Year-End Projection⁴	Projected Variance⁵
ETIC Investments⁶	\$1,188,779	\$414,415	\$414,415	\$774,364

(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 YTD actual, encumbrances and other forecasted expenses.

(5) Year-End Projection vs. Total Available. Total for all ETIC funded programs in MSI at the University of Oregon.

(2)-(5) Attach ETIC Financial Info spreadsheet with matching values

Private Support¹

FY06² as of 6/30/06

Donor	Description	Value
Hynix Semiconductor	7 internships	\$288,729
LSI Logic (ON Semiconductor)	3 internships	\$123,741
Syntech	3 internships	\$123,741
Intel Corp.	2 internships	\$82,494
Pacific NW National Labs	2 internships	\$82,494
BASi	1 internship	\$41,247
Akzo Nobel	1 internship	\$41,247
SiPix	1 internship	\$41,247
Meggitt Silicones	1 internship	\$41,247
Lokey Gift	Integrated Science Phase 1	\$3,500,000
	Total	<hr/> \$4,366,187

- (1) Per Policy on Private Support Reporting <http://www.oregonetic.org/mission/eticprivatematch5.pdf>
- (2) Fiscal year ending June of indicated year.
- (3) 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

FY06 as of 6/30/06

<u>Grantor</u>	<u>Description</u>	<u>Value</u>
DOD/U.S. Air Force	Safer Nanomaterials and Nanomfging Initiative	\$2,169,677
National Science Foundation	Accelerate Transition Student to Scientist	\$1,246,295
ONAMI	CAMCOR Facilities Request	\$515,000
M. J. Murdock Charitable Trust	Research Characterization and Fabrication Equip	\$512,500
National Science Foundation	IGERT: Control of Nanoscale Structure	\$500,000
ONAMI	IGERT Program	\$345,000
National Science Foundation	COAChing Women to Succeed in Chemical Sci	\$316,278
National Science Foundation	Radical Cage Effects in Organometallic Chemistry	\$256,000
National Science Foundation	COAChing Women to Succeed in Chemical Sci	\$222,250
U.S. Department of Energy	Surfaces of Materials in Aqueous Solutions	\$204,638
DOD/Office of Naval Research	Crystal Eng Novel Bulk Thermoelectric Mat	\$200,000
National Science Foundation	Probing Molecular and Adsorptive Properties	\$195,000
NSF/Clemson University	Summer Program for Undergrad Students/Faculty	\$181,990
National Science Foundation	IGERT: Interface of Chemistry and Physics	\$180,000
U.S. Department of Energy	Manybody Effects in Chromium Thin Films	\$150,000
National Science Foundation	Biologically Inspired Physics at the Nanoscale	\$148,604
DOE/National Renewable Energy Lab	Improving the Perf of High Band-gap Copper	\$139,000
National Science Foundation	Polymer Fluids and their Mixtures	\$276,000
National Science Foundation	Topics in Many-Body Theory	\$135,000
National Science Foundation	Molecules Based on Phenyl-Acetylene Scaffolding	\$130,000
National Science Foundation	Fundamentals of Conjugated Ionomer Electronics	\$127,000
ONAMI	Shared Facilities Infrastructure Project	\$125,000

Other Leverage -- Federal & Other Grants

FY06 as of 6/30/06

<u>Grantor</u>	<u>Description</u>	<u>Value</u>
National Science Foundation	Spatiotemporal Fluctuations Transition Metal Oxides	\$120,000
DOD/Office of Naval Research	Molecular Investig Interfacial Processes in Tribology	\$119,399
National Science Foundation	Properties of Novel Self-Assembled Photonic Crystal	\$113,456
DOC/Nat'l Inst of Standards & Tech	Metrology Standards for Nanoscale Size Regimes	\$101,859
U.S. Department of Energy	Research Project: Women in the Chemical Sciences	\$100,000
National Science Foundation	Fundamentals of Conjugated Ionomer Electronics	\$97,000
DOD/Office of Naval Research	Equipment Enhance: Crystal Engineering	\$96,224
National Science Foundation	Lane Cty SD STEM Partnership Stipends	\$93,500
DOD/Office of Naval Research	Prop of Heterostructured, Semiconductor Nanowires	\$85,773
Amer Chemical Scty/Petroleum Rsch Fund	Coarse-Graining of Polymers Melts and Their Mixtures	\$80,000
Amer Chemical Scty/Petroleum Rsch Fund	Prop in Benzo- & Thieno-fused Dehydroannulenes	\$80,000
DOD/Office of Naval Research	Prop of Heterostructured, Semiconductor Nanowires	\$76,159
DOE/National Renewable Energy Lab	Amorphous and Thin-Film Silicon	\$68,300
National Science Foundation	Research Experience for Undergraduates at the UO	\$61,025
Henry Luce Foundation	Clare Boothe Luce Scholars COACh Workshop	\$48,500
DOD/Air Frce Rsch Lab/ITN Energy Sys Inc.	Investigation of Passivation Treatments	\$47,916
U.S. DOE/National Renewable Energy Lab	Improving the Perf of High Band-gap Copper	\$36,000
Richmond F. Snyder Fund	Computational Physics	\$30,000
U.S. DOE/National Renewable Energy Lab	Amorphous and Thin-Film Silicon	\$27,700
Intel Corporation	Enhancement of Materials Fabrication Laboratory	\$26,782
U.S. DOE/National Renewable Energy Lab	Amorphous and Thin-Film Silicon	\$23,000
National Science Foundation	Chemistry Department Head Website Supplement	<u>\$16,023</u>
	TOTAL:	\$9,823,848

Faculty Supported

As of 6/30/06

	<u>Goal</u> ¹	<u>Actual</u> ²
Hired in previous biennia ^{3*} :	3	3
Hired in this biennium ^{3*} :	1	1
	-----	-----
Total	4	4

(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.

(3) Hired with ETIC support in 01-03 and 03-05 biennia. Positions currently supported from non-ETIC sources.

Graduate Category

As of 6/30/06

	<u>AY99</u>	<u>AY05</u>	<u>AY06</u>	<u>AY07</u>	<u>AY08</u>	<u>AY09</u> ¹
<u>Student Credit Hours</u>						
Goal ²	---	1200	1400	1400	1400	1600
Projected/Actual ³	203	1220	1402	1400	1400	1600
Variance ⁴	----	+20	+2	0	0	0
<u>Masters Internship Program</u>						
Internships	---	23	21	21	21	21
<u>Graduates</u>						
Goal ²	---	18	21	21	21	25
Projected/Actual ³	---	19	29	21	21	25
Variance ⁴	----	+1	+8	0	0	0
<u>Ph.D. Internship Program</u>						
Student Credit Hours	---	207	337			
Internships	---	5	3			
Graduates	---	1	5			

Notes:

- **Ph.D. program overall generates 3,643 student credit hours; above numbers relate only to the summer internship component.**
- **AY05 graduates updated to reflect more accurate methodology of identifying MSI students.**

Academic Years ending in June of indicated years.

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

(2)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.

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

Student Metrics

AY06 as of 6/30/06

	Prior Year	Current Year	
	<u>Actual</u> ⁷	<u>Goal</u> ⁶	<u>Actual</u> ⁷
Freshmen SAT/ACT ² :	----	----	----
Incoming grad-student GRE ³ :	64%	80%	75%
Women graduating ⁴ :	8	(30%)	11(38%)
Minorities graduating ^{4,5} :	1	(10%)	5(20%)

Note: AY05 graduates updated to reflect more accurate methodology of identifying MSI students.

- (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 '03-'05 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	
	<u>Actual</u> ⁶	<u>Goal</u> ⁵	<u>Actual</u> ⁶
Research Faculty ²	16		19
Total Research Expenditures ³	\$4,964,290	\$7,000,000	\$5,827,810
Research Expenditures / Faculty ⁴	\$310,268		\$306,727

- (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	
	<u>Actual</u> ⁶	<u>Goal</u> ⁵	<u>Actual</u> ⁶
Spin-offs ²	0		0
Patent Applications	10		12
Patents Awarded	1		0
Number of Licenses ³	2	1	2
Revenue ³	\$6,588.76		\$4,023.92

(1) Academic year ending June of indicated year.

(2) Number of spin offs as reported to Association of University Technology Managers.

(3) Number of patent licenses or other royalty-generating intellectual property licenses granted to commercial entities

(4) Revenue from patent and other intellectual property licenses granted to commercial entities.

(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.

Successes

- Continuing

Masters Internship Program - hired Chris Larson to expand program

Grant income exceeds \$300,000 per faculty member

IGERT grant renewed – joint with OSU faculty

- New

- VPSEM/EBSD system installed

- 6 Source Sputter system funded

- Enhanced recruitment of talented graduate students

Thanks to Intel and H.P. for their assistance

- Expansion in the number of industry partners

Challenges

- Continuing

- Space; office and laboratory space needed
- Investment capital needed for expansion
- Recruiting outstanding graduate students

- New

- Rewarding faculty for success
- Retaining key faculty at UO