

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

Fiscal Summary

FY07¹ as of 6/30/07

	Total Available²	YTD Actual³	Year-End Projection⁴	Projected Variance⁵
ETIC Investments⁶	\$1,073,779	\$299,415	\$299,415E	\$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.

Private Support¹

FY07² as of 6/30/07

Donor	Description	Value
Hynix Semiconductor	2 internships	\$96,000
Hynix Semiconductor	Scholarship	\$12,000
ON Semiconductor	1 internship	\$51,381
Synthetech	3 internships	\$93,600
Intel Corp.	1 internship	\$52,000
Willamette Valley Co	2 internships	\$73,600
Bend Research	1 internship	\$21,000
ONAMI	Donation Match	\$38,500
Dynea Resins	1 internship	\$31,200
Hewlett Packard	1 internship	\$47,748
Specialty Polymers	1 internship	\$33,280
Microchip	2 internships	\$83,040
Invitrogen	2 internships	\$66,552
Marker Gene	1 internship	\$22,880
Voxel Corporation	1 internship	\$44,000
Triquint Semiconductor	1 internship	\$65,328
Chemica Technologies	1 internship	\$30,960

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Private Support¹

FY07² as of 6/30/07

Donor	Description	Value
T & J Meyer Family Foundation	Sustainability Education, Research and Outreach	\$ 1,000,000
Alice C. Tyler Perp./U of O Found.	To build the Alice C. Tyler Nanofabrication Facility	\$ 100,000
Voxtel Corporation	Sabbatical Support for Development of Photovoltaics Based on Nanoparticle/Organic Semiconductor Composites	\$ 39,185
Voxtel Corporation	Postdoctoral Support for the Study of PbS Nanoparticle Based Photovoltaics	\$ 85,759
Richmond F. Snyder Fund	Computational Physics	\$ 30,000
Crystal Clear Technologies, Inc.	Collaboration Agreement with Crystal Clear Technologies	\$ 13,068
Gift	Equip. Don.: Probe for Windows, electron microprobe automation& analysis software (valued at \$50,000, from BAO Gift Report January 2007)	\$ 50,000
Gift	Equip. Don.: Used Varian Gemini 2000 NMR system & Nalorac probe(valued at \$38,500, from BAO Gift Report January 2007)	\$ <u>38,500</u>
Total		\$ 2,131,081

- (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

FY07 as of 6/30/07

Grantor	Description	Value
DOD/U.S. Air Force/Air Force Rsch. Lab..	Safer Nanomaterials and Nanomanufacturing	\$ 1,574,700
DOD/U.S. Army	Nanotech. Center for Thermal Mgmt and Portable Power	\$ 773,956
National Science Foundation	STEP Type 1: UCORE	\$ 396,300
National Science Foundation	Ionic and Molec. Struct. and Bonding at the Surf. of Aq. Solutions.	\$ 354,000
National Science Foundation	COACHing Women to Succeed in Acad. Careers in the Chemical Sciences	\$ 222,500
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Oregon Nanoscience and Microtech. Ins.	Characterization and Certification of Ligand Nano-Coated Filter Media – Commercialization of a Portable Water Filtration System	\$ 219,440
U.S. Department of Energy	Wet Interfaces: Developing a Molecular Framework for Understanding the Surfaces of Materials in Aqueous Solutions	\$ 211,055
NSF/Clemson University	Summer Program in Solid State Chemistry for Undergraduate Students and College Faculty	\$ 181,050
National Science Foundation	CAREER: Artificial Brownian Motors-Education and Research in Biologically Inspired Physics at the Nanoscale	\$ 153,478
U.S. Department of Energy	Research Project on the Recruitment, Retention and Promotion of Women in the Chemical Sciences	\$ 150,731
U.S. Department of Energy	Manybody Effects in Chromium Thin Films	\$ 149,999
U.S. Department of Education	GAANN: Expanding the Horizons: Increased Opportunity for "Non-Traditional" Graduate Students	\$ 127,881
U.S. DoD/Portland State University	Nanoscale Optical Materials (ONR ONAMI sub from PSU) task 1.1	\$ 122,945
National Science Foundation	Spatiotemporal Fluctuations in Transition Metal Oxides	\$ 120,000

Other Leverage -- Federal & Other Grants

FY07 as of 6/30/07

Grantor	Description	Value
National Science Foundation	Spatiotemporal Fluctuations in Transition Metal Oxides	\$ 120,000
U.S. DoE/Nat. Renewable Energy Lab	Innovative Characterization of Amorphous and Thin-Film Silicon for Improved Module Performance	\$ 109,898
U.S. DoD/Portland State University	RF STM (PSU subcontract from ONR ONAMI)task 6.1	\$ 107,522
U.S. DoD/Portland State University	Heterostructure Nanowire Thermal Conductance (PSU sub via ONAMI ONR) task 3.1	\$ 106,096
U.S. DoD/Portland State University	Electron Wave Probes (PSU sub from ONR ONAMI) subtack 5.1	\$ 105,218
Oregon Nanoscience and Microtech. Inst.	Variable Pressure SEM/Electron Backscatter Diffraction System	\$ 100,259
U.S. DoE/National Renewable Energy Lab	Id. the Electronic Properties Relevant to Imp.the Performance of High Band-gap Copper Based I-III-VI 2 Chalcopyrite Thin Film Photovoltaic	\$ 100,000
DoD/Office of Naval Research	Crystal Engineering of Novel Bulk Thermoelectric Materials	\$ 100,000
National Science Foundation	Fundamentals of Conjugated Ionomer Electronics	\$ 97,000
U.S. DoE/ONMI	Curriculum Development and Implementation for the Table Top SEM	\$ 95,900
National Science Foundation Collaborative	Research: Topics in Many-Body Theory	\$ 90,000
U.S. DoD/Portland State University	Nanoionics of Mixed Ionic/Conducors (sub via ONAMI ONR) task 2.1	\$ 86,765
DOD/Office of Naval Research	Thermoelectric Properties of Heterostruct., Semiconductor Nanowires	\$ 86,124
DOD/Office of Naval Research	Crystal Engineering of Novel Bulk Thermoelectric Materials	\$ 85,292
U.S. DoD/Portland State University	Nanolaminated Materials Structures (sub via ONAMI ONR) Task 3.2	\$ 75,652

Other Leverage -- Federal & Other Grants

FY07 as of 6/30/07

Grantor	Description	Value
DOD/Office of Naval Research	Experimental and Theoretical Studies of Molecular Interfaces of Importance in Tribology and Environmental Remediation	\$ 72,309
ONMI	Acquisition of a Multiple Source Sputter Deposition System	\$ 71,225
National Science Foundation	Research Experience for Undergraduates at the University of Oregon	\$ 61,576
U.S. DoE/National Renewable Energy Lab	Innovative Characterization of Amorphous and Thin-Film Silicon for Improved Module Performance	\$ 61,400
DoD/Office of Naval Research	Molecular Investigations of Interfacial Processes in Tribology	\$ 60,955
U.S. DoD/Portland State University	Active Plasmonic Materials (PSU sub from ONR ONAMI) task 1.2	\$ 56,176
Richmond F. Snyder Fund	Computational Physics	\$ 30,000
DoD/U.S. Army/Voxel Corporation	Multifunctional Nanoparticles for Tracking of Materials	\$ 30,000
U.S. DoE/National Renewable Energy Lab	Innovative Characterization of Amorphous and Thin-Film Silicon for Improved Module Performance	\$ 29,200
NSF/Voxel Corporation	SBIR Phase I: Nanostructured Materials with Improved Thermoelectric Properties	\$ 24,997
DOD/U.S. Navy/Voxel Corporation	Binary Multi-Taggant System for Unique Target ID	\$ 21,000
National Science Foundation	Supplement for Chairs Workshop at CCR	\$ 14,712
NASA/Voxel Corporation	Highly Efficiency, Easy-to-Manufacture Engineered Nanomaterials for Theoelectric Applications	\$ 14,000
Crystal Clear Technologies, Inc.	Collaboration Agreement with Crystal Clear Technologies	\$ 13,068
U.S. DoE/Battelle Memorial Institute	Synthesis and Production of Bicyclic Diamide Ligands	\$ 9,750
TOTAL AWARDS		\$ 7,086,629

Faculty Supported

As of 6/30/07

	<u>Goal¹</u>	<u>Actual²</u>
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 6/30/07

	<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	1584	1400	1600
Variance ⁴	----	+20	+2	+184	0	0
<u>Masters Internship Program</u>						
Internships	---	23	21	30	21	21
<u>Graduates</u>						
Goal ²	---	18	21	21	21	25
Projected/Actual ³	---	19	29	18	21	25
Variance ⁴	----	+1	+8	-3	0	0
<u>Ph.D. Internship Program</u>						
Student Credit Hours	---	207	337	1141		
Internships	---	5	3	10		
Graduates	---	1	5	17		

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

AY07 as of 6/30/07

	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 :	75%	80%	78%
Women graduating ⁴ :	11	(30%)	6(32%)
Minorities graduating ^{4,5} :	5	(10%)	6(32%)

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

FY07¹ as of 6/30/07

	Prior Year	Current Year	
	<u>Actual</u> ⁶	<u>Goal</u> ⁵	<u>Actual</u> ⁶
Research Faculty ²	19		18
Total Research Expenditures ³	\$4,587,682	\$7,000,000	\$6,361,249
Research Expenditures / Faculty ⁴	\$241,457		\$353,403

(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

AY07¹ as of 6/30/07

	Prior Year	Current Year	
	<u>Actual</u> ⁶	<u>Goal</u> ⁵	<u>Actual</u> ⁶
Spin-offs ²	0		0
Start-up Companies	0		1
Inventions	0		11
Patent Applications	12		6
Patents Awarded	0		0
Number of Licenses ³	2	1	1
Revenue ³	\$4,024		\$538

(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.