

Engineering & Technology
Industry Council
Performance Scorecard
Biennium 2003-2005
Materials Science Institute
University of Oregon
June 30, 2005

Fiscal Summary

FY05¹ as of 6/30/05

	Total Available²	YTD Actual³	Year-End Projection⁴	Projected Variance⁵
ETIC Investments⁶	\$1,010,289	\$140,648	\$140,648	\$869,641

(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

FY04² as of 6/30/04

Donor	Description	Value
Intel Corp.	2 MS internships	\$82,494
Hynix Semiconductor	2 internships	\$82,494
Willamette Valley Co	1 internship	\$41,247
Bend Research	2 internships	\$82,494
Dynea	1 internship	\$41,247
Hewlett Packard	2 internships	\$82,494
Specialty Polymers	1 internship	\$41,247
Marker Gene Technologies	2 internships	\$82,494
Molecular Probes	1 internship	\$41,247
TCI America	1 internship	\$41,247
Lacamas Laboratories	1 internship	\$41,247
Intel Corp.	3 PhD internships	\$123,741
Willamette University	1 teaching internship	\$6,000
Hynix Semiconductor	Student Fellowships	\$33,800
Oregon Graduate Institute	Equipment Donation	\$130,000
Pacific NW National Labs	6 PhD internships	\$81,600
National Renewable Energy Lab	1 PhD internship	\$13,600
	Total	<u>\$1,048,693</u>

- (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 2003-2005 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

FY05² as of 6/30/05

Donor	Description	Value
Oregon Graduate Inst.	Equipment Donation	\$130,000
Hewlett Packard	Equipment Donation	\$300,000
Hynix Semiconductor	7 Internships	\$288,729
LSI Logic	4 Internships	\$164,988
Microchip	2 Internships	\$82,494
Intel	1 internship	\$41,247
Borden Chemical	1 internship	\$41,247
Willamette Valley Co	1 internship	\$41,247
Chemica Technologies	1 internship	\$41,247
Molecular Probes/Invitrogen	1 internship	\$41,247
AVI Biopharma	1 internship	\$41,247
TCI America	1 internship	\$41,247
Marker Gene Technologies	1 internship	\$41,247
Lacamas Laboratories	1 internship	\$41,247
Nike Corp	1 internship	\$41,247
Hynix Semiconductor	Scholarships	\$12,000
Philips	1 internship	\$20,623
	FY05 Total	<u>\$1,411,304</u>
	Biennium Total	\$2,459,997
	Biennium Goal	<u>\$3,640,140</u>
	Variance	<u>\$1,180,143</u>

- (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 2003-2005 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

FY04 as of 6/30/04

<u>Grantor</u>	<u>Description</u>	<u>Value</u>
National Science Foundation	Enhanced Binding of f-Block Elements	\$108,000
National Science Foundation	IGERT: Nanoscale Structure	\$500,000
Research Corporation	Fluctuations in Ballistic Nanostructures	\$75,000
National Science Foundation	Adv Women Faculty Careers in Chemical Sciences	\$129,772
American Chemical Society	Humic Substances Absorbed at Liquid Surfaces	\$30,000
Department of Energy	Recruit, Retent, & Promo Women in Chem Sciences	\$100,000
US Dept of Education	Inc Opportunity for Non-Traditional Grad Students	\$196,776
National Science Foundation	Heterostructures of Quasi-2D Materials	\$275,000
US Dept of Education	GAANN Teacher/Scholar Prgm in Materials Science	\$196,776
Office of Naval Research	Interfacial Processes in Tribology	\$55,385
National Science Foundation	Conjugated Ionomers	\$90,000
Asahi Kasei Corporation	Thermoelectric Materials Research & Development	\$101,598
National Science Foundation	Partnership to Enhance Science, Tech, Ed & Math	\$496,907
National Science Foundation	IGERT: Nanoscale Structure	\$215,460
Richmond F. Snyder Fund	Computational Physics	\$30,000
National Science Foundation	Topics in Many-Body Theory	\$82,000
American Heart Association	New Tools for Cardiovascular Disease Research	\$198,000
National Renewable Energy Lab	Amorphous Silicon Based Photovoltaic Cells	\$41,777
LOREAL Paris	Highly Conjugated Polymer Films for Hair Apps	\$98,000
National Science Foundation	Biologically Inspired Physics at the Nanoscale	\$97,222
National Science Foundation	Rsch Exp for Undergrads in Chemistry & Physics	\$60,000
National Science Foundation	Dev of Summer Undergrad Course in Polymer Chem	\$21,034

Other Leverage -- Federal & Other Grants

FY04 as of 6/30/04

<u>Grantor</u>	<u>Description</u>	<u>Value</u>
Department of Energy	In-Situ Studies of Molecular Structure	\$175,000
National Science Foundation	Fourier Imaging Correlation Spectroscopy	\$103,000
National Science Foundation	Aqueous Surfaces	\$195,000
National Renewable Energy Lab	Amorphous Silicon Based Photovoltaic Cells	\$77,443
Office of Naval Research	Interfacial Processes in Tribology	\$35,000
Intel Corp/OUS	Research "Boot Camp"	\$30,000
Intel Corp/OUS	UO Materials Analysis Education Initiative	\$30,000
National Science Foundation	Adv Women Faculty Careers in Chemical Sciences	\$169,494
Office of Naval Research	Crystal Engineering of Thermoelectric Materials	\$200,000
Department of Energy/NREL	High Band-gap Copper Based Chalcopyrite Photovoltaic	\$20,000
Department of Energy/NREL	High Band-gap Copper Based Chalcopyrite Photovoltaic	\$50,000
National Science Foundation	Conjugated Ionomers	\$90,000
Department of Energy	Recruit, Retent, & Promo Women in Chem Sciences	\$100,000
Army Research Office	Metallo-Dielectric Photonic Crystals for Optical Apps	\$50,000
National Science Foundation	Novel Self-Assembled Photonic Crystals	\$110,546
National Science Foundation	Cooperative Dynamics in Polymer Fluids	\$76,000
Bend Research, Inc.	Tyler Research	\$69,687
National Science Foundation	Phase & Shape Synthesis of Solid-State Material	\$112,500
National Science Foundation	Molecules Based on Phenyl-Acetylene Scaffolding	<u>\$130,000</u>
	TOTAL:	\$5,022,377

Other Leverage -- Federal & Other Grants

FY05 as of 6/30/05

<u>Grantor</u>	<u>Description</u>	<u>Value</u>
National Science Foundation	Heterostructures of Quasi-2D Materials	\$275,000
National Science Foundation	Enhanced Binding of f-Block Elements	\$108,000
Air Force Rsch Lab/ITN Energy Sys, Inc	Investigation of Passivation Treatments	\$20,000
National Science Foundation	IGERT: Nanoscale Structure	\$500,000
National Science Foundation	MRI:Lithography Enabled SEM & Nanoimprinter	\$402,085
National Science Foundation	Adv Women Faculty Careers in Chemical Sciences	\$129,772
National Science Foundation	IGERT: Nanoscale Structure	\$252,000
DOE/National Renewable Energy Lab	High Band-gap Copper Based Chalcopyrite Photovoltaic	\$14,000
Department of Energy	Manybody Effects in Chromium Thin Films	\$150,000
Office of Naval Research	Crystal Engineering of Thermoelectric Materials	\$100,000
Office of Naval Research	Interfacial Processes in Tribology	\$135,568
Richmond F. Snyder Fund	Computational Physics	\$30,000
Econ Dev Admin/OSU	National Ctr for Multiscale Materials & Devices	\$25,690
National Science Foundation	Biologically Inspired Physics at the Nanoscale	\$138,311
National Renewable Energy Lab	Amorphous Silicon Based Photovoltaic Cells	\$47,777
Intel Corporation	Rural Science Network	\$35,000
Bend Research, Inc.	Tyler Research	\$34,844
Army Research Office	Metallo-Dielectric Photonic Crystals for Optical Apps	\$50,000
National Science Foundation	Novel Self-Assembled Photonic Crystals	\$110,193

Other Leverage -- Federal & Other Grants

FY05 as of 6/30/05

<u>Grantor</u>	<u>Description</u>	<u>Value</u>
Hewlett Packard	Scanning Auger model 670	\$300,000
DOE/National Renewable Energy Lab	High Band-gap Copper Based I-III-VI 2 Chalcopyrite	\$104,000
National Science Foundation	Aqueous Surfaces	\$195,000
Dept of Energy (DOE)	Wet Interfaces	\$198,437
Dept of Defense	Frequency Generation Spectroscopy System	\$132,082
National Science Foundation	Lane Cty School Districts & UO Partnership	\$499,076
National Science Foundation	Fourier Imaging Correlation Spectroscopy in Polymers	\$103,000
DOE/National Renewable Energy Lab	Characterization of Amorphous and Thin-Film Silicon	\$83,206
National Science Foundation	Research Experience for Undergraduates at UO	\$46,382
DOD-US Air Force/Voxel Corp	Nanoparticle/Conjugated Polymer Interpenetrating Netw	\$125,415
DOD-US Army/OSU	Desulfurization of Logistic Fuels via Microscale	\$226,791
M. J. Murdock Charitable Trust	Partners in Science: Quantum Chaos	\$14,000
Pollock-Krasner Foundation	Pattern Analysis of Newly Discovered Abstract Paintings	\$9,000
National Science Foundation	Molecules Based on Phenyl-Acetylene Scaffolding	\$130,000
National Science Foundation	Next Generation Green Chemistry Educational Materials	\$400,000
National Science Foundation	Subcontract for, "Next Generation Green Chemistry Ed	\$20,159
National Science Foundation	Phase- and Shape-Selective Synthesis	\$112,500
American Chemical Society/Petroleum Rsch	Compressive Stress on the Photochemical Degradation	<u>\$80,000</u>
	TOTAL:	\$5,337,288

Faculty Supported

As of 6/30/05

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

* Three faculty are supported by start-up packages from ETIC funds. Two of the three were hired in the previous biennium.

(1) From ETIC Plan for '03-'05 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) Being supported by ETIC funds during '03-'05 Biennium.

Graduate Category

As of 6/30/05

	<u>AY99</u>	<u>AY03</u>	<u>AY04</u>	<u>AY05</u>	<u>AY06</u>	<u>AY09</u> ¹
<u>Student Credit Hours</u>						
Goal ²	---	880	1000	1200	1400	1600
Projected/Actual ³	203	861	964	1220	1400	1600
Variance ⁴	----	-19	-36	+20	0	0
<u>Masters Internship Program</u>						
Internships	---	21	22	23		
<u>Graduates</u>						
Goal ²	---	21	21	21	21	25
Projected/Actual ³	---	22	15	15		
Variance ⁴	----	+1	-6	-6		
<u>Ph.D. Internship Program</u>						
Student Credit Hours	---	137	225	207		
Internships	---	6	11	5		
Graduates	---	0	3	1		

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

(2)From ETIC Plan for '03-'05 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 as of 6/30/05

	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 :	70%	80%	64%
Women graduating ⁴ :	6(33%)	6(30%)	3
Minorities graduating ^{4,5} :	1(5%)	2(8%)	1

(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

FY05¹ as of 6/30/05

	Prior Year	Current Year	
	<u>Actual</u> ⁶	<u>Goal</u> ⁵	<u>Actual</u> ⁶
Research Faculty ²	17	17	16
Total Research Expenditures ³	\$6,161,066	\$6,000,000	\$4,964,290
Research Expenditures / Faculty ⁴	\$362,416	\$352,941	\$310,268

- (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 '03-'05 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

AY05¹ as of 6/30/05

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

(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 '03-'05 Plan.

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

Successes

- Continuing

- Tuition revenue exceeds costs associated with Masters Internship Program

- Grant income exceeds \$310,000 per faculty member

- New

- CAMCOR Microprobe proposal funded

- Enhanced recruitment of talented graduate students

- Thanks to Intel, LSI Logic, and Hewlett Packard for their help

- NSF MRI Lithography Enabled SEM funded

Challenges

- Continuing

- Finding sources of required matching funds for equipment proposals

- New

- Developing collaborations with colleagues at OSU, PSU, and OHSU.

- Space