

Engineering & Technology Industry Council

**Recommendations to OUS Chancellor
and Oregon State Board of Higher Education
for the 2003-2005 Biennium**

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Senate Bill 504, Spring 1997

- Focus on investing in engineering education to serve industry needs
- Established ETIC to advise OUS
- Established goal of investing \$100M in public funds over 10 years starting July 97
- First eight years:
 - \$58M in public funds
 - \$53M + \$37M = \$90M in private support
 - Major progress in building capacity & excellence

ETIC Membership

- CH2M HILL, Inc.
- Gunderson, Inc.
- Hewlett Packard Company
- Intel Corporation
- LSI Logic Corporation
- Mentor Graphics Corporation
- Network Elements, Inc.
- Tektronix Inc.
- Xerox Corporation
- Retired executives
- American Electronics Association, Oregon Council *
- Software Association of Oregon *

* Non voting status

Educational Institutions

- Eastern Oregon University
- OHSU/OGI School of Science and Technology
- Oregon Institute of Technology
- Oregon State University
- Portland State University
- Southern Oregon University
- University of Oregon
- Western Oregon University

ETIC Planning Assumptions

- Investing in capacity and excellence during this biennium
- Measurable outcomes
 - Capacity building
 - Increase in externally funded research
 - Other key quality metrics
- Single plan rather than two separate plans
- Emphasis on leveraging private match

ETIC Strategy

- Continue existing capacity investments
- Invest in best opportunities for excellence as measured by national rankings
- Provide funding relative to task and viability of proposal

Recent ETIC Process

- Campuses asked to submit revised proposals
 - In light of Legislative allocation of about half
 - Update plans including metrics
- ETIC voting members met to
 - Consider proposals
 - Develop revised recommendation
- Recommended
 - \$0 for Research RFP and Pre-college RFP
 - Campus allocations based on merits of proposals and historic results

Leverage through Private Support

<i>In millions</i>	State Funds	Projected Private Support	Projected Support Ratio
EOU	0.25	0.08	0.30
OGI/OHSU	2.60	4.00	1.54
OIT	1.08	0.97	0.90
OSU	9.92	19.30	1.95
PSU	4.96	7.88	1.59
SOU	0.54	0.54	1.00
UO	1.80	4.24	2.36
WOU	0.25	0.08	0.30
Total	\$21.40	\$37.08	1.73

Invest Public and Private Funds

- Hire 17 new faculty members
- Expand laboratories
- Increase quality and diversity of engineering and computer science students
- Enhance pre-college programs
- Invest in existing and new research centers and degree programs
- Achieve higher national rankings for key colleges, departments and programs

Faculty as a Resource for Innovation

	Hired in previous biennia	To be hired in biennium	Total hired with ETIC funds
EOU	0	1	1
OGI/OHSU	4	4	8
OIT	4	1.8	5.8
OSU	16.75	6.25	23
PSU	10	1.5	11.5
SOU	2.3	1.7	4
UO	1	1.3	2.3
WOU	2.5	0	2.5
Total	40.6	17.5	58.1

Leverage through Growth in Externally Funded Research

<i>In millions</i>	AY99	AY06	Gain
OGI/OHSU	15.0	17.8	19%
OIT	1.2	2.2	83%
OSU	12.3	23.2	89%
PSU	1.8	4.5	150%
SOU	.05	.15	233%
UO	6.1	10.9	79%
Total	\$36.4	\$58.8	61%

Continue building towards 2X degree production

ECS Undergraduate & Graduate Degrees

	AY99	AY06	Gain	AY09	Gain
EOU	0	16	N/A	21	N/A
OGI/OHSU	131	155	18%	200	53%
OIT	128	243	90%	306	139%
OSU	543	763	41%	785	45%
PSU	266	420	58%	529	99%
SOU	38	80	111%	89	134%
UO	79	148	87%	192	143%
WOU	40	46	15%	50	25%
Total	1,225	1,871	53%	2,172	77%

Quality...

	AY99	AY06	Gain
Avg. SAT/ACT of freshman	65%	72%	12%
Avg. GRE of graduate students	70%	82%	17%

and Diversity

	AY99	AY06	Gain
Women graduating ECS	13%	17%	35%
Minorities graduating ECS	14%	15%	7%

Weighted averages of all campuses

Summary

- In spite of constraints on resources, continue to build towards
 - 2X degree production
 - Growing excellence through investments in top-notch faculty and research
- Engineering & Computer Science is a major asset for building Oregon's economy – across all industries
- The ETIC model has proven itself
 - As a results-driven model
 - Based on multi-campus partnerships
 - With strong industry input
 - That could work in other areas
- Much work remains to be done to achieve our goals