

# Engineering Education Investment Fund Performance Scorecard

Biennium 1999-2001

College of Engineering and Computer  
Science

Portland State University

November 15, 2000



# Undergraduate Category

	Fall 2000	Spring 2001	Spring 2002	Spring 2003
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## ⚡ Enrollment

• Goal	115	115	181	268
• Actual/Projected	123	115	181	268
• Variance	+8	0	0	0

## ⚡ Graduates

• Goal	N/A	20	31	37
• Projected/Actual	N/A	20	32	45
• Variance	N/A	0	+1	+8



# Key Indicators Up

- ✦ Undergraduate enrollment up 12% overall
  - Fall 1999 -- 989
  - Fall 2000--1,112
- ✦ Registered freshmen enrollment up 60%
- ✦ Core lower division courses have increased enrollment ranging from 25% to 100%



# Graduate Category

	Fall 2000	Spring 2001	Spring 2002	Spring 2003
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## ⚡ New Credit Hours

• Goal	96	312	420	540
• Actual/Projected	339	312	537	1274
• Variance	+243	0	+117	+734

## ⚡ Degrees Awarded

• Goal	N/A	1	8	9
• Projected/Actual	N/A	3	7	15
• Variance	N/A	+2	-1	+6

- To continue growth we must remove the Graduate Cap



# Accomplishments

- ⚡ 6 new faculty positions for 1999-2001
  - Hired: Computer Science--Networking
  - Hired: Electrical and Computer Engineering--Signal Processing
  - Hired: Civil Engineering--Intelligent Transportation Systems
  - Hired: Engineering and Technology Management--Process Management
  - Recruiting: Mechanical Engineering
  - Recruiting: Computer Science (Funded by PSU)
- ⚡ 107 new scholarships awarded to freshmen and transfer students
  - Leveraged ETIC funding with \$220,000 from the NSF for CSEMS Scholarships for economically disadvantaged students in 1999-2001



# Accomplishments

- ✦ ETIC + Scholarships = Enrollment Success
  - Increased applicant pool
  - Increased matriculation rate
  - Increased support services = retention to graduation
- ✦ New Ph.D. Programs
  - Approved: Computer Science
  - Approved: Civil Engineering
  - In review: Engineering and Technology Management
  - In process: Mechanical Engineering
  - Added OGI's Materials Program



# New Laboratory Facilities

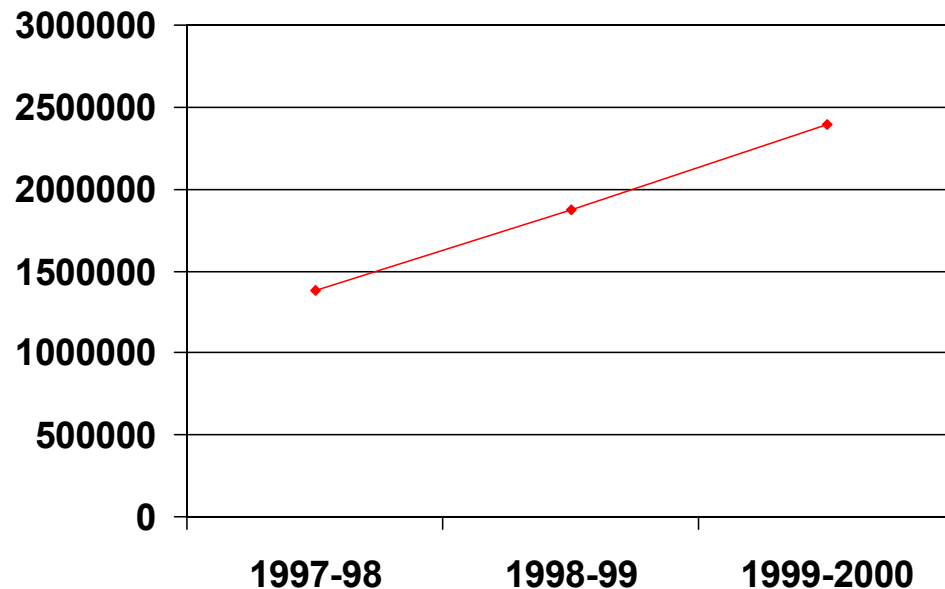
- ✦ Chemical-Mechanical Planarization Lab
- ✦ IC Design and Test Lab
- ✦ Tektronix Circuit Design Lab
- ✦ Mechanical Computer-Aided Engineering Lab
- ✦ Networking Lab
- ✦ Parallel Computing Lab
- ✦ Materials Science Lab

↳ opening in 2000-2001



# Increased Research Funding

⚡ Total Research Expenditures increased 74% in 3 years



⚡ Research per Faculty FTE increased 62% in 3 years



# Industry Matches

Donor	Description	Value
Intel	CS Networking Lab Equip.	\$ 5,000
Tektronix	ECE Robotic Lab Equip.	\$ 10,000
Hewlett-Packard	MESA Computer System, Printer	\$ 11,273
Intel	ECE Labs Equip. Upgrade	\$ 31,496
Siemens	Building Control Sys for ME Lab	\$ 34,215
Tektronix	ECE Circuits Lab Equip. Upgrade	\$ 87,176
Intel	Intel Faculty Fellowship 2000	\$ 95,000
Intel	CMP Machine--ME Materials Lab	\$ 125,000
Various	HW/SW Donations	\$ 500,000
Credence Systems	IC Tester	\$ 1,040,000
CH2MHill	Intelligent Transportation Lab	\$ 50,000
PacificCorp	Undergraduate Scholarships	\$ 50,000

**Total**

**\$2,039,160**



# Other Leverage -- Federal & Other Grants

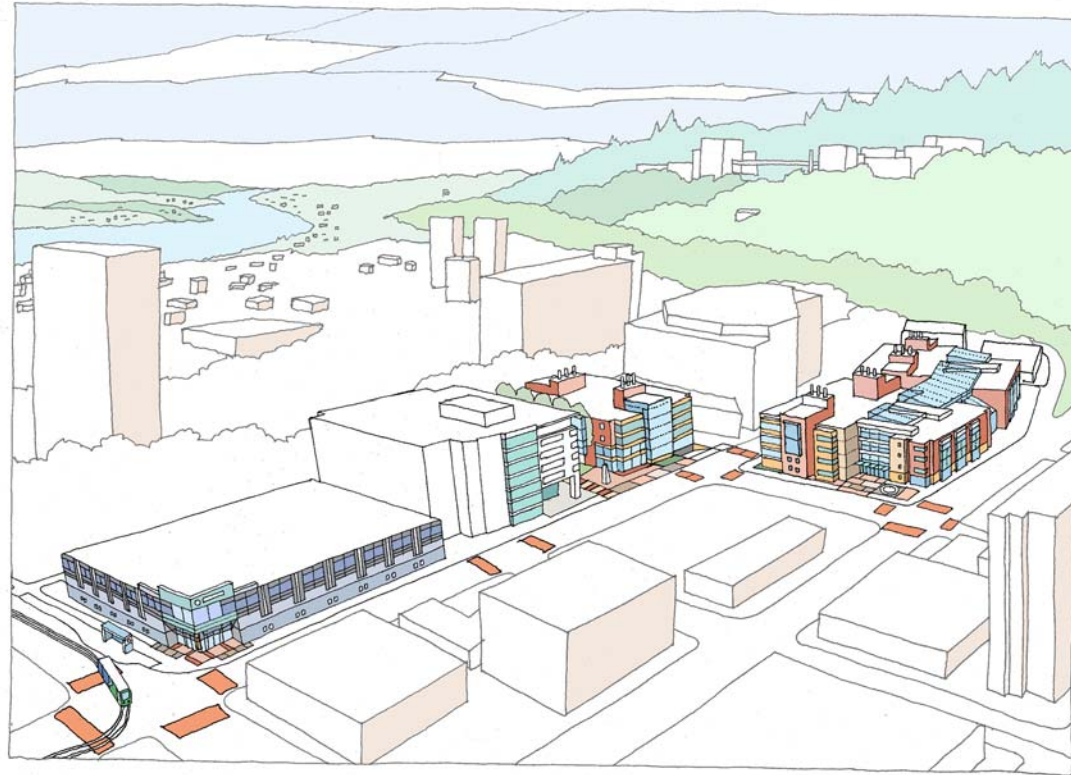
Grantor	Description	Value
LLNL	Parallel Processing Diagnosis	\$ 56,948
BPA/DOE	Test of 500KV Surge Arresters	\$ 65,000
DCCWD	Workforce Skill Development	\$ 60,739
BPA	Proposal for Business Strategy	\$ 70,000
Clackamas County	Willamette River Modeling	\$ 79,017
USDE	BPA Leadership Training	\$ 93,028
NSF	CSEMS Funds	\$ 490,000
Various		\$ 422,565
Semiconductor Research Consort.	High Frequency High-Q Analog Integrated Filter	\$ 452,000
NSF	Groundwater Remediation Curriculum	\$ 528,000
NSF	CAD methodologies for VLSI Layout	\$ 277,073

**Total**

**\$2,594,370**



# New Engineering Facility



*Portland State University  
College of Engineering  
and Computer Science*

