Engineering & Technology Industry Council
Building Oregon’s Economy through Investing in Engineering & Research

Fred Ziari
ETIC Chair
CEO, IRZ Consulting, ezWireless
Hermiston, Oregon

Shalini Prasad (left) with graduate assistant Ravi K. Reddy.
ETIC’s Inception (1997) -- Senate Bill 504

• Established ETIC to advise Oregon University System

• Goal of investing $100M in public funds over ten years starting July 1997

• Focus on investing in engineering education to serve industry needs
ETIC represents diversity of Oregon industries

- **Agilis Solutions**, Eileen Boerger
- **Bend Research**, Rod Ray
- **CH2M Hill**, John Willis
- **Electrical Geodesics**, Ann Bunnenberg
- **Electro Scientific Industries**, Nick Konidaris
- **Gunderson**, Gary Kaleta
- **Hewlett Packard**, Kathy Miller
- **IBM**, Jon Lind
- **Intel**, Steve Pawlowski
- **IRZ Consulting /ezWireless**, Fred Ziari
- **JELD-WEN**, Craig Zemke
- **KPFF Consulting Engineers**, Arthur Johnson
- **Performance Health**, Mike Rohwer
- **Tektronix**, Dave Brown
- **Timbercon**, Eric Meslow

**Industry Associations**
- **AeA**, Jim Craven
- **AOI**, John Marshal
- **OBA**, Ryan Deckert
- **SAO**, Harvey Mathews
Engineers are an asset to all Oregon
Goal: Grow Oregon’s Innovation Capacity & Ensure Prosperity

- Deliver more work-ready graduates to Oregon’s industries
- Increase research and link results to Oregon industry needs
- Enhance K12 “pipeline” of future freshmen who are motivated and prepared to pursue engineering.
ETIC Funding Provides Benefits across Oregon

Infrastructure / Trans.
Renewable / Environmental
Pre-Engineering Programs
Computer Science & IT
Biomedical Engineering
Material & Nanoscience
Electrical & Computer Eng.
Other Engineering
The supply-demand gap is growing

Demand for Engineering & Technology Positions and Need Met by Oregon Graduates

Source: Oregon Employment Department
ETIC Strategy

5X Federal Research

2X degrees awarded each year

Globally Competitive Education & Research

Invest State + Private $ in Quality and Growth
## Criteria for ETIC Proposal Reviews

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State Dollars Produce Huge Return

Private Support
+ Research Funding
+ Venture Capital

9-to-1 Ratio
ETIC Invests in Student Opportunity and Research Capacity

High school students demonstrate robot

PhD Student Quijano, participates in a Navy-sponsored Shallow Water Experiment.

Professor Pancake and colleagues analyze tsunami data

Group of graduate students participating in Master’s Industrial Internship Program

Professors Bertini and Monsere monitor traffic flows.
2X goal: double the engineering graduates

Bachelor's, Master's, and Doctoral Degrees

Actual and Projected Degrees
5X goal: Grow Oregon’s innovation capacity

Research Dollars (millions)

Actual and Projected Research Investments

- '98-'99: $30
- '06-'07: $56
- '12-'13: $84
- '19-'20: $183
Summary
ETIC Plan Grows Innovation Capacity

- Engineers
- Research
- Economic Impact
- Results