

Sponsored Opportunities: Working Together to Support Student and Faculty Success

Board of Trustees

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Oregon **TECH**

- Office of Strategic Partnerships
 - Lita Colligan and Brittany Miles
- Office of Sponsored Projects and Grants Administration + Office of Tech Transfer
 - Sara Reuter
- Oregon Tech Foundation
 - Tracy Ricketts and Team



We are Service Centers.

- Increase student success through experiential learning and industry input on applied degree programs.
- Increase enrollment through industry and community outreach, awareness, and partnerships.
- Increase faculty success and professional development by facilitating and supporting applied research and scholarship.
- Increase resources for faculty, labs, student support services.



Emerging Strategic Themes

- ***Relevant, hands-on, real-world and accessible*** education opportunities for students.
- ***Business-savvy*** university: “outside in”, not “inside out.” Understand and build to business value.
- ***Brand match: We are known for what we truly are. Differentiate based on strengths.*** Strong congruence between brand, actions and results. Be the best us we can be. Don’t chase the crowd.
- ***Stand strong with the reality of declining state support.*** Build resilience beyond state funding sources.
- ***Build a culture of collaboration,*** excitement, brand identity and pride with students, faculty, staff, alumni, and community stakeholders.



Producing Results in Strategic Plan

- “increasing industry partners and field opportunities”
- “ensuring that students have experiential learning needed to achieve a 90%+ success rate”
- “support for faculty achievement including PD, supported environment in which to innovate”
- “continually build mutually beneficial relationships with industry so our graduates are in even greater demand, reputational capital”



Sponsored Opportunities

WHAT CAN BE FUNDED ?

- A. New/Expanded Program Needs
- B. Student Projects
- C. Faculty/Student Summer Research
- D. Student Scholarships
- E. Student Academic Assistance
- F. Student Enrichment
- G. Internships
- H. Retention/Recruitment/Outreach
- I. Equipment



Sponsored Opportunities

SOURCES OF FUNDING

- A. Federal Grants
 - 1. Limitations
 - 2. Advantages
- B. State Grants & Programs
- C. Industry Consortiums
- D. Private Companies
- E. Foundations
- F. Local Governments
- G. Subawards



Research at Oregon Tech

- Designed to support and enhance our educational mission as a polytechnic university.
- Focus on applied research projects (TRL 3-7) that create value to industry partners and society by translating basic research (TRL 1-2) to the pre-competitive stage (TRL 7) while providing relevant educational experiences for our students.
- Include system integration, prototyping, modeling, testing, and characterization.
- Supported by the Office of Sponsored Projects, Office of Innovation & Technology Transfer, and Office of Strategic Partnerships.



Primary Technical Research Areas

ETM:

- Geothermal Energy (Geo-Heat Center)
- Grid Integration of Renewables & Smart Grid (OREC/EERE)
- Energy Storage (OREC/EERE/CSET)
- Applied Optical Engineering (EERE)
- Advanced Manufacturing (MMET)
- Transportation (NITC)
- Research Experiences for Undergraduates (Multiple Fields/Majors)

HAS:

- Applied Psychology
- Medical Sociology
- Environmental Science



Examples of Industry Research Projects & Partnerships with Industry

– Industry Applied Research & Commercialization

- Oregon Tech & Kerstech Vehicle Systems (\$244k): EV, Embedded
- Oregon Tech & Arcimoto (\$299K): Integrated Battery Systems

– Research Collaborations among Universities

- NITC - National Institute for Transportation & Communities (PSU/OIT/UO) - \$2.83M
- Northwest Collaboratory for Sustainable Manufacturing (PSU, OSU, UO, OIT) - \$200K for 2 faculty positions for MMET to work part-time on applied research
- ETIC – Engineering & Technology Industry Council – various projects to add degree programs or enhance curriculum tied to industry needs

– Educational Partnerships with Companies

- Boeing Seattle Partnership (MMET Department) – Offering BS in Mechanical Engineering, BS in Manufacturing ET, BS in Mechanical ET, MS in Manufacturing ET, and 4 Certificate programs on-site



NW ENERGY XP



Delivery of Fall Protection Lines by Unmanned Aerial Vehicle

Objective: Demonstrate a faster, safer way to complete the fall protection process for utility ground crews



Dylan Seay
Mechanical Engineering Undergraduate
Oregon Tech – Klamath Falls



Ozgenur Kavas
Mechanical Engineering Graduate Student
WSU - Vancouver



Dr. Matt Beekman
Assistant Professor of Physics
Oregon Tech – Klamath Falls

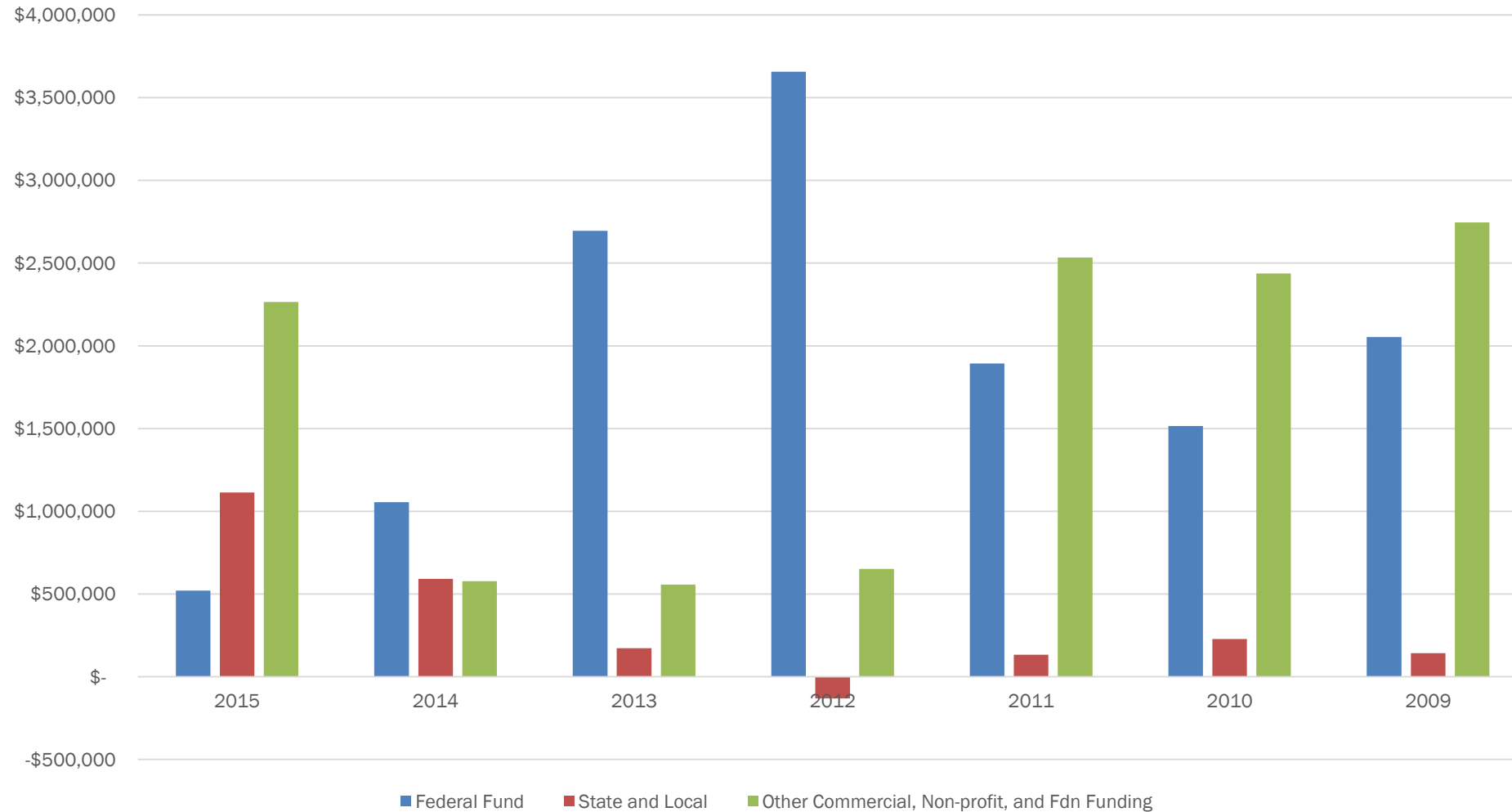


Dr. Hakan Gurocak
Professor and Director, School of
Engineering and Computer Science
WSU - Vancouver



Sponsored Projects and Grants 2009-2015

Sponsored Projects and Grants 2009-2015



Constraints

- Short timelines for grant applications
- Workloads for faculty
- Requirements for matching funds, partner involvement, letters of support
- High expectations on deliverables and timelines
- Fluctuating funding cycles and faculty commitments
- Lack of research leadership function



What are funders looking for?

- Multi-disciplinary
- Helping to increase relevance in curriculum
- Innovation
- Scalability
- Leverage
- Sustainability



Working with Departments on Opportunities



- Think bigger: what does your program, dept or college want to accomplish?
- New space: how can our new building be a catalyst for innovation in curriculum, shared invention work space, multi-disciplinary programs, entrepreneurship?
- What about retention and engagement strategies?



Other Ways We Partner with Industry

- Industry-Supported Senior Projects: work with a team of students on a company-driven, non-critical-path project
www.oit.edu/seniorprojects
- Internships and Employment: recruit and cultivate undergraduate and graduate students
www.oit.edu/careerservices
- STEM Partnership – becoming involved in building well-prepared students who are excited about STEM careers
Stemoregon.org and Oregon Connections platform



In Summary – Oregon Tech

- Polytechnic university with an educational mission (BS, MS programs)
- Research designed to support and enhance our educational mission as a polytechnic university & serve industry partners.
- Research focused on TLR 3-7
- Increased work with startups and small companies in integration, prototyping, testing and characterization
- Strategic Partnerships and Sponsored Projects Office to facilitate industry sponsored projects and commercialization efforts
- Many ways to partner! **oit.edu**



How We Help

- Assist faculty with ideas, grant sources, collaboration on projects
- Streamline processes
- Pre and post-award grant administration
- Provide information and training
- Administer industry-supported programs

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