

# RESEARCH

---

A312, A322, B306 and B308 Kerr Administration Building  
Oregon State University  
Corvallis, OR 97331-2140  
Phone: 541-737-3467  
Email: [researchsupport@oregonstate.edu](mailto:researchsupport@oregonstate.edu)  
Website: <http://research.oregonstate.edu/>

## Administration

**Cynthia Sagers**, *Vice President for Research*

**Roy Haggerty**, *Associate Vice President for Research*, 541-737-8390,  
[roy.haggerty@oregonstate.edu](mailto:roy.haggerty@oregonstate.edu)

**Mark Peters**, *Interim Director*, Office of Research Integrity, 541-737-0647,  
[mark.peters@oregonstate.edu](mailto:mark.peters@oregonstate.edu)

**Patricia Hawk**, *Assistant Vice President*, Office for Sponsored Research and Award Administration, 541-737-4933, [patricia.hawk@oregonstate.edu](mailto:patricia.hawk@oregonstate.edu)

**Brian Wall**, *Assistant Vice President for Research, Commercialization and Industry Partnerships*, Office for Commercialization and Corporate Development and Oregon State University Advantage, 541-737-9058,  
[brian.wall@oregonstate.edu](mailto:brian.wall@oregonstate.edu)

**Susan Emerson**, *Research Development Associate*, 541-737-1755,  
[susan.emerson@oregonstate.edu](mailto:susan.emerson@oregonstate.edu)

---

## The Research Office

Oregon's State University is one of only two land, sea, space and sun grant institutions in the U.S., holds top tier research designation from the Carnegie Foundation, and is the state's largest public research university. Oregon State research exceeded \$308 million dollars in fiscal year 2015, with private sector funding totaling approximately \$40 million.

The OSU Research Agenda, integrated with the university's strategic plan, guides faculty inquiry in OSU's three signature areas of distinction: Advancing the Science of Sustainable Earth Ecosystems; Improving Human Health and Wellness; and Promoting Economic Growth and Social Progress.

Headed by the vice president for research, the Research Office serves faculty involved in research, innovation, scholarship, and creativity in all OSU colleges and in a variety of multidisciplinary centers, institutes and programs. The office provides support to secure funding, comply with regulations, partner with industry, establish collaborations across the university and raise the profile of OSU.

---

## Programs, Offices and Centers

**Incentive Programs** (<http://research.oregonstate.edu/incentive/>): The General Research Fund is for projects not otherwise supported by organized or directed programs. Faculty Release Time provides funding for developing external grant proposals or furthering scholarly activities. Research Equipment Reserve Funds help acquire, repair, renovate, or improve equipment. The Undergraduate Research, Innovation, Scholarship and Creativity Fund enable students to initiate scholarly relationships with faculty early in their academic careers.

**OSU Advantage** (<http://advantage.oregonstate.edu/home/>): OSU Advantage connects business with faculty expertise, student talent and world-class facilities to research solutions, bring ideas to market and launch companies. OSU Advantage helps faculty take their research

and projects into the marketplace where they can have real-world impacts, and provides opportunities to new sources of funding to carry on important and impactful work. Three aligned organizations offer this opportunity: Advantage Accelerator, Advantage Partnerships, and Advantage Impact.

**Office of Research Integrity** (<http://research.oregonstate.edu/ori/>): The ORI works with OSU faculty, staff, and students to help assure proper conduct of research in areas pertaining to the use of human subjects, and non-human vertebrate animals. The office also works with faculty and Academic Affairs to identify and appropriately manage issues that could be perceived to present financial conflicts of interest. The university's Small Boat and Diving Safety programs are overseen by the office, as are issues related to technology export controls. The ORI's purpose is to facilitate the research efforts of OSU faculty, staff and students by helping them to remain compliant with the many federal and state research regulations that assure the integrity of research, the safety of all, and the ethical treatment of human and animal subjects.

**Office of Sponsored Research and Award Administration** (<http://research.oregonstate.edu/osraa/>) (OSRAA) (<http://research.oregonstate.edu/osraa/>): OSRAA has central responsibility for proposal submission for sponsored research, scholarship, instructional and other activities at Oregon State and contractual compliance as it relates to sponsored activities. OSRAA balances service to OSU faculty and staff, university administration, and the numerous organizations that sponsor Oregon State University activities. Functions include proposal review, monitoring institutional compliance with terms and conditions, official institutional signatory, policy and procedure development, training, compliance activities related to research administration, and general funding opportunity assistance.

**Office for Commercialization and Corporate Development (OCCD)** (<http://advantage.oregonstate.edu/advantage-impact/>): The OCCD leads OSU's industry-sponsored research efforts and the commercialization of OSU innovations by evaluating markets, developing an intellectual property protection strategy and executing research, confidentiality, materials transfer, licensing and other industry agreements. The OCCD is the bridge to commercial entities—from Oregon-based startups to large international companies, the OCCD facilitates OSU research to impact the world.

**Office for Research Development (ORD)** (<http://research.oregonstate.edu/ord/>): The ORD provides leadership in strategic planning, implementation, coordination, and review of large research proposals across campus, and manages the University Limited Submission process. The primary responsibilities of the ORD are to identify and develop new external funding sources, increase funding support for the university, facilitate the development of research partnerships, research future grant opportunities, and provide education for faculty and administrators to encourage applications for grant funding.

**Multidisciplinary Centers and Institutes** (<https://research.oregonstate.edu/research-centers-and-institutes-osu-0/>): Addressing many of the world's most pressing challenges requires collaborative efforts of scientists, engineers, social scientists, and humanists to attain long-lasting, high impact results. OSU fosters these dynamic transdisciplinary collaborations through a variety of centers, institutes and programs. With particular strengths in material sciences, ocean and earth sciences, enterprise innovation and economic development, health sciences, and natural resources, OSU investigators, representing virtually every college on campus, team to conduct cutting-edge research, provide undergraduate and graduate education, and

proactively engage communities throughout Oregon and the world in helping them address their greatest needs.

## Center for Genome Research and Biocomputing

**Brett Tyler**, *Director*

Website: <http://cgrb.oregonstate.edu/>

Facilitates the development, application and training in computationally intensive, genome-enabled research at OSU and across the state. Research in the CGRB and faculty affiliate laboratories seeks to improve health, better utilize natural and agricultural resources, understand our global environment, and develop new bio-based products and energy sources. The center offers leadership and services to faculty, staff and students through core laboratories, computational facilities, seminars and technology workshops, and conferences. It also provides a focal point for researchers to establish contacts, initiate collaborations, and apply new technologies in their own laboratories.

## Center for Latino/a Studies and Engagement

**Ana Gómez-Diazgranados**, *Associate Director of Outreach and Engagement*

Email: [Ana.Gomez@oregonstate.edu](mailto:Ana.Gomez@oregonstate.edu) ([Daniel.Lopez-Cevallos@oregonstate.edu](mailto:Daniel.Lopez-Cevallos@oregonstate.edu))

**Daniel López-Cevallos**, *Associate Director of Research*

Email: [Daniel.Lopez-Cevallos@oregonstate.edu](mailto:Daniel.Lopez-Cevallos@oregonstate.edu)

Website: <http://liberalarts.oregonstate.edu/centers-and-initiatives/center-latino-studies-and-engagement> (<http://liberalarts.oregonstate.edu/centers-and-initiatives/center-latino-studies-and-engagement/>)

The mission of the Center for Latino/a Studies and Engagement is to promote engaged research and outreach devoted to advancing knowledge and understanding of Latinx life chances and the issues shaping their lived experiences in our state, region and beyond. The overarching goals of the center are to promote excellence in engaged research, teaching, and outreach in Latinx Studies; to establish an action-based agenda which will promote the economic, political, physical, and educational well-being and development of the Latinx community in rural and urban Oregon; to serve as a model for enhancing the university's capabilities in similarly targeted research and engagement efforts; and to foster engaged research that is collaborative, trans-disciplinary, and community oriented; furthering both theoretical and applied knowledge to solve real-world problems.

## Center for Research on Lifelong STEM Learning

**Martin Storksdieck**, *Director*

Email: [Storksdieck@oregonstate.edu](mailto:Storksdieck@oregonstate.edu)  
Website: <http://stem.oregonstate.edu/>

Works to improve understanding of how *all* people learn STEM throughout the lifespan and across formal and informal settings. The center works across campus to enhance OSU's capacity to conduct applied research on learning and education in STEM disciplines (Science, Technology, Engineering and Mathematics), and to provide OSU with the insights from past and current research on STEM learning. It serves a diverse and

decentralized community of those who engage in STEM, or use learning research at OSU, by functioning as a central hub and institutional support structure. The center represents OSU STEM learning research at state, national and international levels.

## The Center for the Humanities

**Christopher McKnight Nichols**, *Director*

**Joy Jensen**, *Coordinator*

Website: <http://oregonstate.edu/dept/humanities/>

Primarily concerned with the advancement of interdisciplinary humanities research and provides fellowships to visiting scholars and OSU faculty members engaged in research and writing projects in literature, history, philosophy, foreign languages, and related humanities fields. Fellowship applications are screened by an advisory board made up of former fellows and OSU faculty from the College of Liberal Arts. The Humanities Center also hosts or co-sponsors research conferences, seminars, films, lectures, and other public programs in the humanities. The Humanities Center's fundamental concern is the advancement of humanities research, teaching, and public presence at OSU.

## Cooperative Institute for Marine Resources Studies

**Michael A. Banks**, *Director*

Website: <http://hmrc.oregonstate.edu/cimrs/>

Established in 1982 to foster collaborative research between the National Oceanic and Atmospheric Administration (NOAA) and Oregon State University in fisheries, aquaculture, oceanography, and related fields. It also encourages education and training of scientists in disciplines related to marine resources. Administered through the Vice President for Research, the institute is the academic home for a staff of 25 to 45 (total) research assistants, associate and full professors, research associates, and faculty research assistants and students. Headquartered at the Hatfield Marine Science Center in Newport, the institute hosts collaborative research with various NOAA investigators within OAR, NOS and NMFS, specifically, the Pacific Marine Environmental Laboratory, the Northwest Fisheries Science Center and the Alaska Fisheries Science Center, the West Coast Regional Office, as well as researchers from a broad range of colleges and departments within the entire OUS system.

## Environmental Health Sciences Center

**Joseph Beckman**, *Director*

Website: <http://ehsc.oregonstate.edu/>

Established in 1967 with funding by the National Institute of Environmental Health Sciences (NIEHS). As an organizational unit under the vice president for research, it provides resources for coordination and stimulation of interdisciplinary basic research and training related to the effects of environmental factors on human health. The EHS Center currently brings together and uses a variety of professional capabilities of research and teaching faculty, staff, and students from numerous OSU departments, schools, and colleges within OSU. Academic areas include chemistry, biochemistry and biophysics, environmental and molecular toxicology, microbiology, molecular and cell biology, food science and technology, fisheries and wildlife, veterinary medicine, pharmacology, zoology, and statistics. The center's visiting scientists program complements research expertise in these areas.

---

## Hatfield Marine Science Center

**Robert Cowen**, *Director*

2030 SE Marine Science Drive, Newport, OR 97365

Phone: 541-867-0212 (Director's Office)

Email: [HMSCmainoffice@oregonstate.edu](mailto:HMSCmainoffice@oregonstate.edu)

Website: <http://hmsc.oregonstate.edu/>

HMSC has over 50 years of accomplishment in research, education, and outreach. Originally established as a marine laboratory for Oregon State University, it has grown to encompass a large group of partners on its 49-acre site on Yaquina Bay in Newport, Oregon. Within OSU, HMSC includes researchers, students, and faculty from six colleges. It serves as home to several university programs, including the Coastal Oregon Marine Experiment Station, the Cooperative Institute for Marine Resources Studies, and the Marine Mammal Institute. It also includes important components of the Oregon Sea Grant program and the Northwest National Marine Renewable Energy Center. Our onsite partners include six state and federal agencies involved in research and management of the marine environment, and our cooperation includes faculty appointments for agency staff, as well as opportunities for students to work with agency scientists.

---

## Institute for Natural Resources

**Lisa Gaines**, *Interim Director*

Phone: 541-737-9918 (Main Office)

Website: <http://inr.oregonstate.edu/>

Created by the Oregon Legislature with the Oregon Sustainability Act of 2001, the INR is a cooperative enterprise bringing the scientific knowledge and expertise of the Oregon University System and other Oregon higher education institutions to bear on natural resource management. Designated as the lead university to administer INR, Oregon State University (OSU) established INR as a research institute within OSU to help decision-makers identify and use relevant science in making policy choices. At INR's foundation is the land grant mission – building bridges between theory and practice and effectively communicating knowledge to decision-makers.

---

## Institute for Water and Watersheds

**Todd Jarvis**, *Director*

**Kathryn Motter**, *Laboratory Manager*

Phone: 541-737-9918

Email: [iww@oregonstate.edu](mailto:iww@oregonstate.edu)

Website: <http://water.oregonstate.edu/>

Since water is 'virtually' embedded in all Oregon products, whether natural or manufactured, the state's economic vitality is tied directly to water. Water quantity and quality issues in the Willamette and Klamath Basins are two of the state's top environmental priorities. The Institute for Water and Watersheds (IWW), Oregon's federally-designated water resources research institute, has over 125 affiliated faculty and pursues solutions to Oregon's water problems by assembling research teams from a broad spectrum of disciplines. The institute utilizes educational and outreach models to communicate the latest water science and policy options to stakeholders so that they can make informed intelligent decisions. The IWW's Water Collaboratory, an open analytical chemistry

laboratory, provides faculty, staff, and students with a variety of analytical capabilities.

---

## Laboratory Animal Resources Center

**Helen E. Diggs**, MEd, DVM, DACLAM

*Director and Campus Attending Veterinarian*

101 Laboratory Animal Resources Center

Corvallis, Oregon 97331

541-737-6213

Email: [larc@oregonstate.edu](mailto:larc@oregonstate.edu)

Website: <http://oregonstate.edu/dept/larc/>

Supports and manages the care and veterinary oversight of vertebrate animals used in instruction, research, production, and testing on the Oregon State University campus and property throughout the state. As the leading public research university in Oregon, the campus community is held to the highest standards of responsible animal care. The LARC staff is composed of veterinarians, animal technicians, and veterinary technicians all with specialty training and certifications specific to laboratory animal medicine. LARC employees are committed to providing an exemplary animal oversight program. This includes assuring humane care and use of animals through quality veterinary oversight, husbandry, social housing and environmental enrichment. The LARC staff facilitates campus research and instructional collaborations, through consultation, training, and provision of professional technical and clinical services, and by maintaining compliance with applicable federal and state regulations. The LARC upholds the university's academic mission and commitment to public service.

---

## Linus Pauling Institute

**Balz Frei**, *Director*

307 Linus Pauling Science Center

541-737-5075

Email: [lpi@oregonstate.edu](mailto:lpi@oregonstate.edu)

Website: <http://lpi.oregonstate.edu/>

The Linus Pauling Institute was co-founded in 1973 by Linus Pauling, the only individual to win two unshared Nobel Prizes (Chemistry, 1954; Peace, 1962). The institute moved to the campus of Oregon State University (Dr. Pauling's undergraduate alma mater) in 1996 and now operates as one of the university's research centers and institutes. Researchers at the Linus Pauling Institute investigate the role that vitamins and essential minerals (micronutrients) and chemicals from plants (phytochemicals) play in human aging, immune function, and chronic diseases, especially heart disease, cancer, and neurodegenerative diseases. A major emphasis is to understand the role of oxidative stress and inflammation in disease etiology, and the preventive effects of dietary constituents with antioxidant or anti-inflammatory properties.

---

## Northwest National Marine Renewable Energy Center

**Belinda Batten**, *Director*

Phone: 541-737-9492

Email: [belinda.batten@oregonstate.edu](mailto:belinda.batten@oregonstate.edu)

Website: <http://nnmrec.oregonstate.edu/>

The NNMREC is a U.S. Department of Energy-sponsored partnership between Oregon State University (OSU), the University of Washington

(UW), and the University of Alaska Fairbanks (UAF). The three universities collaborate together with national laboratories on research, education, outreach, and engagement. NNMREC's mission is to facilitate commercialization of marine energy technology, inform regulatory and policy decisions, and close key gaps in scientific understanding with a focus on student growth and development. We work closely with a variety of stakeholders, including device developers, community members, ocean users, federal and state regulators, and government officials, to conduct research about wave energy, provide test sites for prototype devices, and assist developers with planning and permitting activities.

---

## Oregon NASA Space Grant Consortium

**Jack Higginbotham**, *Director*

Phone: 541-737-2414

Website: <http://spacegrant.oregonstate.edu/>

NASA established Oregon Space Grant in 1991 as a part of the National Space Grant College and Fellowship Program. The objectives of the program are to establish a national network of universities with interest and capabilities in aeronautics, space, and related fields; encourage cooperative programs among universities, aerospace industry, and federal, state, and local governments; encourage interdisciplinary training, research, and public service programs related to aeronautics, space science, and technology; recruit and train professionals, especially women, underrepresented minorities, and persons with disabilities, for careers in aerospace-related science and engineering; and develop a strong science mathematics, and technology education base from elementary through university levels.

---

## Oregon Sea Grant

**Shelby Walker**, *Director*

Website: <http://seagrant.oregonstate.edu/>

Oregon Sea Grant's mission is to be a catalyst that promotes discovery, understanding and resilience for Oregon coastal communities and ecosystems. Funding for Sea Grant comes from federal and state appropriations, as well as contributions from local governments and industry. The major support is a grant from the National Oceanic and Atmospheric Administration. Program activities are conducted in four thematic areas; ecological, social and economic aspects of coastal development, adaptation to acute or chronic coastal hazards, human and natural dimensions of coastal and marine fisheries, and cultural beliefs, learning and valuation of coastal and marine issues.

---

## Radiation Center

**Steve Reese**, *Director*

Website: <http://radiationcenter.oregonstate.edu/>

The Radiation Center is a campus-wide instructional and research facility specially designed to accommodate programs involving the use of radiation and radioactive materials. Located in the center are major items of specialized equipment and unique teaching and research facilities, including a TRIGA Mark II nuclear research reactor (licensed to operate at 1,100 kilowatts when running at a steady power level and at 2,500 megawatts in the pulsing mode); a cobalt-60 gamma irradiator; a number of gamma radiation spectrometers and associated germanium detectors; and a variety of instruments for radiation measurements and monitoring. Facilities for radiation work include teaching and

research laboratories with up-to-date instrumentation and related equipment for performing neutron activation analysis and radiotracer studies; laboratories for plant experiments involving radioactivity; an instrument calibration facility for radiation protection instrumentation; and facilities for packaging radioactive materials for shipment to national and international destinations.

---

## Superfund Research Center

**Robert Tanguay**, *Director*

Email: [robert.tanguay@oregonstate.edu](mailto:robert.tanguay@oregonstate.edu)

541-737-6514

Website: <http://superfund.oregonstate.edu/>

The Superfund Research Center oversees the NIEHS-funded Superfund Research Program grant at Oregon State University. This grant supports a multidisciplinary research effort to address the re-emerging health threat of polycyclic aromatic hydrocarbons (PAHs) in the environment. PAHs are considered a re-emerging threat to environmental health due to the increased burning of fossil fuels (e.g., coal and petroleum products) for energy production. The SRP grant supports five research projects and six support cores at Oregon State University and Pacific Northwest National Laboratory in Richland, WA, in a range of efforts involving human exposure to PAHs. In addition, research partners are located at San Diego State University, the Confederated Tribes of the Umatilla Indian Reservation and Pennsylvania State University. These research projects focus on determining the effect of PAHs on a variety of adverse human health outcomes employing animal models such as zebrafish to detect developmental toxicities.

---

## Oregon Nanoscience and Microtechnologies Institute

**Skip Rung**, *President and Executive Director*

Phone: 541-713-1331

Email: [skip@onami.us](mailto:skip@onami.us)

Website: <http://onami.us/>

ONAMI is Oregon's first 'signature research center' for the purpose of sustaining and growing Oregon's innovation economy. As is true of only three other states, technology is Oregon's largest employer, with an average wage twice the statewide average. Growth of these kinds of job opportunities is the single most effective thing we can do for state financial health, schools, public safety and human services.

Our strategy has been 10 years in the making, and the selection of 'nanoscience and microtechnologies' was based on a careful analysis intended to discover the largest possible intersection among:

- nationally competitive research in our universities,
- future commercial opportunities/growing sectors of the national economy,
- the existing skills of Oregon industry and its surrounding value chain ecosystem.

ONAMI is now a nationally recognized model for state innovation initiatives, and is frequently featured at events and in publications by the National Science Foundation, National Governors Association, and other organizations concerned with keeping the United States competitive in the global innovation economy.

The state of Oregon so far has invested \$47 million in ONAMI, including \$5.2 million from the Oregon Innovation Council (OECD) for fiscal year 2012–2013. These funds are invested in OSU research and commercialization capacity in the form of matching funds for competitive extramural proposals, facility operations, and 'gap' grants to assist in the formation of successful new products and startup companies.

---

## Oregon Translational Research and Development Institute

**Jennifer E. Fox**, *Executive Director*

Phone: 503-227-1814

Email: [jfox@otradi.org](mailto:jfox@otradi.org)

Website: <http://www.otradi.org> (<http://www.otradi.org/>)

OTRADI is a nonprofit research and development organization, supported in part by the state of Oregon that strives to promote bioscience industry growth and job creation in Oregon. OTRADI achieves this goal via collaboration with private and public sector entities in the bioscience community to discover, develop, and commercialize therapeutics, vaccines, diagnostics and other life sciences products important for human health. OTRADI's specialized high-throughput drug discovery robotic equipment is unique in the Northwest, offering previously out-of-reach drug screening capabilities as well as the expertise necessary to analyze results and quickly identify the best products to commercialize. OTRADI uses its equipment and expertise to rapidly screen thousands of chemical compounds developed by Oregon research laboratories and companies to identify new potential drugs, speeding progress on global health concerns, and bringing more economic development and scientific talent to Oregon.

---

## Oregon BEST

**David Kenney**, *President and Executive Director*

Phone: 503-928-7902

Email: [david.kenney@oregonbest.org](mailto:david.kenney@oregonbest.org)

Website: <http://oregonbest.org/>

Oregon BEST funds and supports innovative cleantech startups across Oregon. As an economic development catalyst, Oregon BEST connects startups with state and federal resources while preparing them for follow-on investment through a series of focused programs.

We invest strategically in public-private partnerships that rapidly transform university research into new clean technologies, companies, and jobs. The research, projects, and startups we support serve as a proving ground for leading-edge clean technologies while powering a vibrant innovation ecosystem.

Oregon BEST's work not only adds value and enhances competitiveness for Oregon businesses, it also grows the state's research revenue, expands research programs, enhances workforce development, and positions Oregon to recruit new cleantech companies.

Since its establishment as an independent, nonprofit organization by the Oregon Legislature in 2007, Oregon BEST's 270+ Member Researchers (<http://oregonbest.org/portfolio/>) have attracted more than \$135 million in research revenue to Oregon from federal, industry, and foundation sources. Building on Oregon's international reputation as a sustainability innovator, Oregon BEST offers a range of programs, expertise, and research facilities described below.

Cutting-edge research requires cutting-edge equipment and the expertise to operate it. Oregon BEST supports a network of nine shared-user research facilities (<http://oregonbest.org/what-we-offer/expertise/labs/>) at Oregon State University, Portland State University, and the University of Oregon. These multi-million dollar labs offer our industry partners access to research tools, faculty expertise, and workforce development opportunities. The labs help Oregon businesses compete while helping universities grow research and educate graduates. By providing both financial and leadership support, Oregon BEST works to ensure that our community has access to advanced research facilities.

## Agricultural Experiment Station

**Daniel J. Arp**, *Director*

**William G. Boggess**, *Executive Associate Director*

**W. Daniel Edge**, *Associate Director*

**Joyce Loper**, *Associate Director*

**John R. Talbott**, *Assistant Director*

**Jack Breen**, *Agricultural Sciences and Marine Sciences Business Center Manager*

Email: [AESsupport@oregonstate.edu](mailto:AESsupport@oregonstate.edu)

Website: <http://agsci.oregonstate.edu/research/research> (<http://agsci.oregonstate.edu/research/research/>)

A statewide research network of Oregon State University scientists working on the Corvallis campus and at 11 branch stations in the major crop, climate, and marketing areas of Oregon. These diverse locations ensure that the station's research program is close to the people and the needs of Oregon's agricultural and natural resources. Founded July 1, 1888, in accordance with the federal Hatch Act of 1887, the mission of the Oregon Agricultural Experiment Station is to conduct research and demonstrations in the agricultural, biological, social, and environmental sciences that contribute to the economic, environmental, and social welfare of Oregon.

---

## College of Engineering Research and Economic Development Office

**Irem Y. Tumer**, *Associate Dean for Research and Economic Development*

Website: <http://red.engr.oregonstate.edu/>

RED at the College of Engineering was established to promote and support research programs and faculty. The overall mission of the RED office is to build new bridges between faculty, external stakeholders and collaborators, help faculty find and apply for funding opportunities, boost the college's reputation for research, and grow industry funding. We specifically aim to foster high-impact research initiatives among our faculty, and develop strong relationships with our academic, industry, and government partners. This includes not only connecting faculty teams with funding opportunities and matching industry needs with Oregon State expertise, but also assembling teams that can build new programs in emerging areas that are responsive to global challenges.

---

## Aquaculture Collaborative Research Unit

**Hillary S. Egna**, *Director*

Websites: <http://aquafishcrsp.oregonstate.edu/> and <http://pdacrsp.oregonstate.edu/>

The Aquaculture Unit, a center within the College of Agricultural Sciences since 1999, has served as the home for international aquaculture programs such as the Feed the Future Innovation Lab

for Collaborative Research on Aquaculture & Fisheries (formerly AquaFish CRSP), the Aquaculture Best Management Practices for Strategic Investment in Rapid Technology Dissemination project, the Aquatic Resource Use and Conservation for Sustainable Freshwater Aquaculture and Fisheries Project (USAID Mali/Bamako Mission), a USAID Cairo Mission Aquaculture Project, the Aquaculture CRSP, the Pond Dynamics/Aquaculture (PD/A) CRSP, and other projects. These diverse international aquaculture programs have been knitted together under independent grants, and have shared a common goal to reduce poverty in developing countries by improving access by the poor to fish and water resources. The Unit has worked with nearly 600 U.S. and host country universities, government, private companies, and non-governmental organizations to support research, development, and outreach activities in 34 countries including Bangladesh, Belize, Brazil, Bolivia, Burma, Cambodia, China, Colombia, Costa Rica, Ecuador, Egypt, El Salvador, Ghana, Guatemala, Guyana, Honduras, Indonesia, Kenya, Laos PDR, Malawi, Mali, Mexico, Nepal, Nicaragua, Panama, Peru, Philippines, Rwanda, South Africa, Tanzania, Thailand, Uganda, U.S.A., and Vietnam.

---

## Forest Research Laboratory - Institute for Working Forest Landscapes

**Thomas Maness**, *Director*

**Anthony S. Davis**, *Associate Director*

**Roger D. Admiral**, *Associate Director*

Website: <http://www.forestry.oregonstate.edu/research/forest-research-laboratory> (<http://www.forestry.oregonstate.edu/research/forest-research-laboratory/>)

Research in the College of Forestry (CoF) is conducted under the broad umbrella of the Forest Research Laboratory (FRL), which was established by the Oregon Legislature in 1941. The FRL is partially funded by the Legislature as one of three Statewide Public Service Units (see Oregon Revised Statute 526.225). Faculty, staff, and students from the College of Forestry's Departments of Forest Engineering, Resources, and Management; Forest Ecosystems and Society; and Wood Science and Engineering contribute to a diverse portfolio of fundamental and applied research and outreach activities. In November 2013, the college launched the Institute for Working Forest Landscapes (IWFL) to focus FRL research programs on innovative approaches for managing landscapes that will enhance people's lives and improve the health of communities, businesses and vital ecosystems. The IWFL's program is organized under four broad thematic areas: Healthy People and Communities, Resilient Ecosystems, Intensively Managed Forests, and Competitive and Innovative Products.

---

## Integrated Plant Protection Center

**Paul Jepson**, *Director*

Website: <http://www.ipmnet.org/>

IPPC was established in 1991, to expand upon the range of activities of the International Plant Protection Center, that was chartered by Oregon State University in 1969. The IPPC is partially supported by the Agricultural Experiment Station, and the Cooperative Extension Service. The IPPC focuses upon research, education and outreach activities associated with the adoption of sustainable integrated pest management (IPM) practices in agriculture. It is the home for a number United States Department of Agriculture (USDA)-funded programs associated with pest control and pesticide management, including the state IPM program,

the Regional Pest Management Center program, the Pesticide and Environmental Stewardship program, and the Farm Safety program.

---

## Inter-University Consortium for Political and Social Research

**Valery King**, *Official Representative (OSU Libraries)*

Website: <http://www.icpsr.umich.edu/icpsrweb/>

Through funding provided by OSU Libraries, OSU is a member of ICPSR, the Inter-University Consortium for Political and Social Research. A unit within the Institute for Social Research at the University of Michigan, ICPSR was established in 1962 and maintains and provides access to a vast archive of social science data for research and instruction. OSU students, faculty and staff may access these data at no charge and may also deposit their own data into the collection. ICPSR offers members reduced fees to attend the *Summer Training Program in Quantitative Methods of Social Research*, a comprehensive curriculum of intensive courses in research design, statistics, data analysis, and social methodology. Additionally ICPSR leads several initiatives that encourage use of data in teaching, particularly for undergraduate instruction, and offers user support to assist researchers in identifying relevant data for analysis and in conducting their research projects.

---

## Kiewit Center for Infrastructure and Transportation

**Jason Weiss**, *Director*

Email: [kiewit.center@oregonstate.edu](mailto:kiewit.center@oregonstate.edu)

Website: <http://cce.oregonstate.edu/research/>

The center was initially established in 1962 as the Transportation Research Institute. The Kiewit Center serves as the umbrella organization for all research within the School of Civil and Construction Engineering. The center is a key component in the College of Engineering's drive to become a top 25 engineering program, coordinating multi- and interdisciplinary research projects. For the last 150 years, civil engineers have built the infrastructure upon which American prosperity rests. Roads, bridges, airfields, dams, schools, and safe drinking water form the foundation for our quality of life. Today that foundation is crumbling. Americans experience this deterioration every day. A recent report by the American Society of Civil Engineers confirms what most Americans already know—the ASCE report gave the U.S. infrastructure an overall grade of D+. The center is an interdisciplinary unit that provides research, education and public service related to the built environment and the systems that operate in that environment.

---

## Marine Mammal Institute

**Bruce Mate**, *Director*

Website: <http://mmi.oregonstate.edu/>

A multi-disciplinary faculty incorporating the work of academics from engineering, genetics, fisheries and wildlife (agriculture), aquatics, ecology, veterinary medicine, biology, and communications.

- Whale Telemetry Group (WTG): Using satellite-monitored radio tags to determine the distribution and critical habitats of endangered whales.

- Cetacean Conservation and Genomics Laboratory (CCGL): Exploring the genomes of whales and dolphins to understand the past, assess the present, and conserve the future.
- Pinniped Ecology Applied Research Laboratory (PEARL): Ecology, behavioral physiology, and conservation biology of pinnipeds.
- Geospatial Ecology of Marine Megafauna (GEMM) Laboratory: Spatial and behavioral studies of marine megafauna to generate an improved understanding of species ecology and distribution patterns.
- Bio-Telemetry and Behavioral Ecology Laboratory: Using telemetry and bio-logging tools to study the behavioral ecology of marine mammals.
- Oregon Marine Mammal Stranding Network (OMMSN): Documenting occurrences and investigating the causes of marine mammal strandings in Oregon.

---

## Microproducts Breakthrough Institute

**Goran Jovanovic**, *OSU Co-Director*

Phone: 541-713-1348 (MBI Office)

Email: [goran.jovanovic@oregonstate.edu](mailto:goran.jovanovic@oregonstate.edu)

Website: <http://mbi-online.org/>

The MBI is a 45,000 square foot facility located on the Hewlett-Packard Corvallis campus containing offices, laboratories, fabrication facilities and laydown space for the research, development and commercialization of arrayed microfluidic systems and related nanomanufacturing technology. This facility is focused on accelerating the discovery, development and commercial deployment of new nano- and micro-scale phenomena and their technology embodiments. The MBI is collaboration between the Pacific Northwest National Laboratory (PNNL) and OSU. PNNL and OSU are leaders in the science, engineering, and technology development of nano- and micro-scale processes and systems. Collaboratively they conduct research and development projects ranging from fundamental science and technology investigations to assistance with commercial development and production. Areas of current research and development include photovoltaic manufacturing, hydrogen storage, nanomaterials synthesis, biofuel processing, miniature heat pumps and artificial kidneys among others.

---

## O.H. Hinsdale Wave Research Laboratory

**Pedro Lomonaco**, *Director*

Phone: 541-737-2875

Email: [pedro.lomonaco@oregonstate.edu](mailto:pedro.lomonaco@oregonstate.edu)

Website: <http://wave.oregonstate.edu/>

Provides outstanding research and testing at the largest nearshore experimental facility at an academic institution in the US. The 6,100 ft<sup>2</sup> (570 m<sup>2</sup>) building is situated on the main campus and houses the Large Wave Flume (LWF), Directional Wave Basin (DWB), and 3,000 ft<sup>2</sup> (300 m<sup>2</sup>) of office space for staff, graduate students, visiting researchers, and clients. The laboratory conducts research on coastal and nearshore processes involving wave-structure interaction, nearshore hydrodynamics and sediment transport, marine renewable energy, tsunami and coastal hazards and fixed and floating structures. Through our work we deliver research, testing, and education and outreach opportunities to improve the resilience and sustainability of coastal areas, and to develop innovative solutions to the design of coastal infrastructure.

---

## Oregon Climate Change Research Institute

**Philip W. Mote**, *Director*

**Kathie Dello**, *Associate Director*

Website: <http://occri.weebly.com/>

The Oregon State Legislature established the Oregon Climate Change Research Institute (OCCRI) within the Department of Higher Education in 2007. OCCRI is a network of over 150 researchers at Oregon State University (OSU), the University of Oregon, Portland State University, Southern Oregon University, and affiliated federal and state labs. OCCRI is tasked with: facilitating research by faculty at Oregon's public universities on climate change and its effects on natural and human systems in Oregon; serving as a clearinghouse for climate change information; providing climate change information to the public in integrated and accessible formats; supporting the Oregon Global Warming Commission in developing strategies to prepare for and to mitigate the effects of climate change on natural and human systems, and providing technical assistance to local governments to assist them in developing climate change policies, practices, and programs.

---

## Oregon Wood Innovation Center

**Scott Leavengood**, *Director*

Phone: 541-737-4212

**Chris Knowles**, *Assistant Director*

Phone: 541-737-1438

Email: [owic@oregonstate.edu](mailto:owic@oregonstate.edu)

Website: <http://owic.oregonstate.edu/>

OWIC is a joint initiative of Oregon State University's College of Forestry and Extension Service. OWIC's mission is to improve the competitiveness of Oregon's wood products industry by fostering innovation in products, processes, and business systems. A key function of the center is to serve as the primary link between university research and needs and opportunities in the forest industry. The forest products industry has undergone dramatic changes in recent years. The industry responded to reductions in raw material supply and the forces of globalization by consolidating, retooling production systems, and by focusing on improving efficiencies in manufacturing processes. However, it is clear that focusing solely on process innovation will be insufficient to maintain future competitive advantage. Firms must also focus on product and business systems innovation. OWIC helps foster such innovation by serving as a 'clearinghouse' to connect manufacturers to the research community, to other organizations that provide assistance to businesses, and to facilitate networking within the industry.

---

## Sun Grant Western Regional Center

**John R. Talbott**, *Director*

Phone: 541-737-2194

Emails: [john.talbott@oregonstate.edu](mailto:john.talbott@oregonstate.edu) or [sungrant@oregonstate.edu](mailto:sungrant@oregonstate.edu)

Website: <http://sungrant.oregonstate.edu/>

A network of five land grant universities serve as regional Sun Grant Centers. These universities include Oregon State University (Western Region), South Dakota State University (North-Central), Oklahoma State University (South-Central), the University of Tennessee-Knoxville (Southeastern), and Pennsylvania State University (Northeastern). The centers facilitate federally funded research, extension, and education programs in their respective regions.

The mission of the Sun Grant Initiative is to:

1. Enhance national energy security through development, distribution and implementation of biobased energy technologies;
2. Promote diversification in and the environmental sustainability of, agricultural production in the United States through biobased energy and products technologies;
3. Promote economic diversification in rural areas of the United States through biobased energy and product technologies; and
4. Enhance the efficiency of bioenergy and biomass research and development programs through improved coordination and collaboration among the Department of Agriculture, the Department of Energy, and the land grant colleges and universities.