in the middle of everywhere.
At Oregon State University, we have a responsibility.

To the state of Oregon and every part of the world. From mountain peaks to the bottom depths of the ocean. To the very edge of what’s known.

With people from everywhere, drawn here determined to solve the problems society needs solved. Ready to learn and inspired to lead. Entrusted to build a future that’s smarter, healthier, more prosperous and more just. Celebrating what makes each of us unique and the unique contributions each of us makes.

We’re up for the challenge and in it for a better world. You can be, too.

Let’s go OUT THERE.
Innovation, leadership and excellence. Since 1868.

At Oregon State University, we have a steadfast commitment to transform students into leaders while serving Oregon, the nation and the world. From understanding and addressing pressing issues such as climate change and community wellness to ensuring food quality and water supplies, Oregon and the world can count on us for a healthier, more sustainable future.

This IMPACT 2017 brochure demonstrates how Oregon State students, alumni, faculty, researchers and others achieve inclusive excellence through teaching, service, collaboration and far-reaching results.

Since 1868, Oregon State has served to enrich the lives of all people. Looking ahead to our next 150 years, Oregon State University will continue to deliver meaningful and significant solutions throughout Oregon and the world.

Edward J. Ray
President
Oregon State University
Numbers aren’t the only thing that count.

We want to be measured by the impact our people make.

Being Oregon’s largest university means that more Oregonians — and students from around the world — can learn, explore and become who they want to be. We’re welcoming more students from every background, experience and orientation. Because everybody has something to offer. And our diversity adds up to an extraordinary community.
Our community: 2016 Oregon State enrollment

31,476 Students
- Corvallis: 24,672 — up 0.8%
- OSU-Cascades: 1,122 — up 10%
- Ecampus: 5,682 — up 11%

5,858 First-generation students — 23% of all undergraduates

7,204 U.S. minority students — up 7%

3,529 International students — up 6%

1,281 High achievers — 47% of incoming freshmen had a high school GPA of 3.75 or higher

260 Incoming freshmen ranked No. 1 or No. 2 in their high school graduating class — up 44%

6,406 Graduates in the class of 2016 — Oregon State’s largest ever

Source: Fall 2016 Enrollment Summary. All comparisons relate to 2015 enrollment.
Setting a record makes us want to do one thing: break it.

And we did, with $336 million in research funding in 2016. That’s $27 million more than the previous year’s record. More tough questions answered. More innovations taken to market. More people’s lives made better.

That’s what motivates Oregon State faculty, students and our partners in industry: to put our research to work and see it make an impact out there.

Leading indicators: 2016 research by the numbers

$336 million in research grants and contracts — up 9%

$762 million in social and economic impact — up 14%

2,000+ undergraduate students participate in faculty research or pursue research projects of their own

$5.5 million in licensing revenue

70 invention disclosures with commercial potential

11 companies launched with Oregon State support

Groundbreaking research often starts by being wrong. Over and over. But that doesn’t discourage us. It pushes us to keep trying.

And sometimes, after saying “that’ll never work,” it does. Spectacularly.

Such persistence is how researchers have found that eating broccoli sprouts unleashes a genetic process that can suppress or kill cancer cells and slow the growth of tumors. Or prevent cancer entirely.

The answers are out there. Sometimes, as close as your vegetable garden.

Emily Ho is director of the Moore Family Center for Whole Grain Foods, Nutrition and Preventive Health in the College of Public Health and Human Sciences and a principal investigator at the Linus Pauling Institute. Her research is examining how compounds in cruciferous vegetables like broccoli, Brussels sprouts, cauliflower and kale can help fight cancer.
“Synthesis,” a sculptural installation suspended above the lobby in Johnson Hall, suggests the process of synthesis on a molecular or cellular scale.
Generosity isn’t only measured in dollars.

It can be expressed in time and energy dedicated to helping others in a meaningful way. This drive to give back is embedded in our DNA.

Examples are everywhere at Oregon State. Donors have committed more than $253 million to the university over the last two years. Their support has helped fund hundreds of new scholarships that give students transformative learning opportunities they wouldn’t otherwise have. Volunteers have helped families prepare healthy meals on a budget. Faculty have committed to teaching well beyond the classroom.

People come to Oregon State because they want to make a difference. And they do.
We’ve sent 180,000+ problem-solvers, difference-makers and go-getters into the world. And there are 30,000 more in the pipeline.

Oregon State students are doing much more than just going to class and studying in the library. They’re getting their hands dirty — finding out how theories work in the real world. They’re being challenged to think harder, push further, speak up.

At the same time, we’re challenging ourselves to do more for students. Starting with the Student Success Initiative. Announced by President Ray in 2016, it includes specific goals to increase student retention and graduation rates by 2020.

In the past year, more than 4,200 students have received new scholarships to help keep them in school. The OSU Finish in 4 project will help more undergraduates complete their degrees in four years instead of six, saving them tens of thousands of dollars. A Graduate Student Success Center, mentoring programs, and improvements to research space will help more master’s and doctoral students complete their degrees.

Oregon State is also adopting best practices in student advising, including clear pathways to graduation that are program and college specific. We ensure every student gets at least one internship, research appointment, service-learning course, study abroad or other opportunity beyond the classroom and work every day to make ours a supportive, safe, inclusive community.

Because for every student who comes to Oregon State, we want the honor of handing them their hard-earned diploma, one that has prepared them to accomplish great things. For themselves. For others. For the world.
$1,000 can be all it takes to keep a student going.

And thanks to one generous donor, 100 first-year students were able to return for their second year of school.

The $1,000 High Promise Scholarship, which also includes funding from individual colleges, helps students who might otherwise drop out because of financial need or academic struggles. It’s our way of saying, “We believe in you.” Because we do.

“Before, I didn’t really feel like I was a part of Oregon State, but receiving the scholarship made me feel welcome. It made me actually see that people do recognize me here.”

— Tori Cherisme | Ethnic Studies

“Having the scholarship is helping me not only pay for my books and help with tuition, it’s opening my future at Oregon State, which is really exciting. It means I get to stay here next year — just that much made a difference.”

— Elizabeth Nunneley | Early Childhood Education

“I’m the first in my family to graduate and go to college. The High Promise Scholarship is easing any doubt about coming to school another year and is making it easier for me to attend Oregon State.”

— Leonel Jaimes Navarro | Electrical and Computer Engineering
Our favorite location is the intersection of vision and reality.
Sometimes, that’s an actual place on the map, like OSU-Cascades in Bend. With a campus so new the paint’s still drying, its 1,200 students, 3,000 alumni and community supporters are realizing a 30-year, grassroots effort to bring a four-year university to Central Oregon.

Vision and reality also meet at Bend’s bustling hospital, where OSU-Cascades engineering student Scottie Duclos designed a computer-animated simulation of the emergency room, running multiple variables to see what really does — and doesn’t — improve efficiency and patient care. The ER simulation was so useful, the hospital hired Duclos to do the same for the intensive care unit and other departments.

Wherever there’s a vision for something better, you’ll find us hard at work, determined to make it a reality.

OSU-Cascades opened its 10-acre campus in Bend at the start of the fall term in 2016. The campus includes an academic building, Tykeson Hall, a dining center and residence hall for 300 students. Located in the heart of Central Oregon, a vast natural laboratory, OSU-Cascades offers 16 undergraduate and four graduate degrees, including signature programs in energy systems engineering, tourism and outdoor leadership, and hospitality management.
If they say, “It
hasn’t been done,” we say, “Let’s do it.”

Exploring new frontiers is what we expect of ourselves. Bringing an artist to paint a series of seascapes gives fresh perspectives to scientists on a Pacific Ocean research cruise. Putting a transparent sensor on a contact lens produces a new way to monitor blood glucose and control insulin infusions. Creating adaptive, interactive systems that break out of the one-size-fits-all lecture and textbook model personalizes learning and helps students succeed.

At Oregon State, we’ll never settle for ordinary when the chance to achieve something extraordinary is out there.

Sparking a collaboration of the arts and sciences, 2016 College of Liberal Arts alumna Abigail Losli joined marine researcher Sarah Henkel from the College of Science (left) and her team on the research vessel Pacific Storm in a study of organisms and habitats on the sea floor that could be impacted by offshore wind energy installations. Losli’s series of paintings, Five Days at Sea, will be permanently displayed at the Marine Studies Initiative facility under construction in Newport.
The world’s toughest challenges aren’t waiting patiently for someone to take them on.

Eric Vela didn’t wait, either. Hired by Oregon Health & Science University to lead a multimillion-dollar HIV vaccine program, he knew he needed to augment his expertise in infectious disease research with management, finance and leadership skills. So he’s earning an MBA in organizational leadership through Oregon State’s top-ranked Ecampus, combining online course work with in-person classes in Portland and applying what he’s learning immediately on the job.

Oregon State offers a variety of online and hybrid degree programs that allow working professionals to keep working while they build their skills. Because it’s never too late to learn and never too soon to start using that knowledge to solve problems in the real world.
Students deserve every opportunity to pursue their dreams.

That’s why Oregon State offers so many programs emphasizing learning beyond the classroom. Like Strengthening Education and Employment for Diverse Students in the College of Forestry. Through SEEDS, renewable materials major Auna Godinez found a faculty research project to work on during her first year. Which led to another project in her second year, then study abroad and field work in the Amazon rainforests of Peru.

Students come to Oregon State from every corner of Oregon, all 50 states and more than 100 countries, with goals as unique as they are. Our goal — our responsibility — is to make sure each is more knowledgeable, more capable, more aware when they leave, excited to contribute to a better future.
Our graduates have the confidence to say “good enough” is never good enough.

They resist the status quo. Not content to push themselves higher, they want to bring others along as well.

Jessica Nguyen-Ventura knows firsthand what it’s like to be a minority student, to be tagged as unlikely to succeed. Not only has she defied that label, she has made it her career to ensure all children in Oregon have an equal opportunity for success. Earning a Master of Public Policy in the College of Liberal Arts developed her abilities to collect, analyze and interpret information, then act on it. As executive officer for the State Board of Education, her daily work makes a positive impact on more than half a million children statewide.

Every day presents an opportunity to make the world a better place. Seize the day.
Innovation can’t wait. Our students don’t, either.

They’re starting their careers — and starting businesses — while they’re still in school. And we’re helping them with everything from workspace and 3-D printers, to a business incubator offering practical startup resources and mentoring from successful entrepreneurs.

College of Business entrepreneurship student Alex Dassise invented the DiscJam, a flying disc that plays music and lights up when thrown. But it also turned out to be a way to connect with his brother, Stefan, who has autism. With support from the OSU Advantage Accelerator program, Dassise and fellow business student Spencer Kleweno started a company and made the DiscJam lighter and easier to produce. They’re now giving prototypes to speech, occupational and physical therapists to test the DiscJam’s potential as a teaching and communication tool for people with disabilities.

Give students a solid foundation, and there’s no limit to how far they can go out there.
Saving a dog’s life can be a lifesaver for people, too.

The remarkable bond between people and their pets is driving medical advances to help both have longer, healthier lives.

Nora LaBrocca thought she’d have to say goodbye to Cooper when the 10-year-old Boxer developed a malignant tumor in his jaw. But thanks to an intraoperative radiotherapy system donated to Oregon State’s Small Animal Hospital — the only system of its kind in a veterinary hospital — doctors could administer one precise dose of radiation to the tumor cavity during surgery. What researchers have learned from successfully treating Cooper and other animals can be used to adapt intraoperative radiotherapy treatments for human cancer patients.

Pets are some of the best friends we have. And friends look out for each other.
When great minds approach a problem from different angles, they can achieve something greater.

Add a mathematician to a team of mechanical engineers, and you get a step closer to controlling one of the first robots in the world that can walk the way people do. An accidental discovery of a brilliant blue pigment that’s both durable and nontoxic can lead to both energy-efficient roof coatings and inspire an artist to experiment with the chemical structures that create colors.

We think collaboration has exponential power. And the possibilities are infinite out there.

Honors College student and mathematics major Johnathan Van Why used computational number theory and other advanced math to help develop control software for ATRIAS, a prototype of a more agile, capable, efficient robot. Van Why’s speed and skill at using math to solve complex programming challenges caught the attention of recruiters at Google and led to an enthusiastic job offer months before graduation.
Slicing up pastries at a Corvallis bakery helps a group of elementary school students learn about fractions (bonus: they get to eat their lesson). At a tire shop, a third-grader uses shiny tools like pressure gauges to see how math is more than numbers on a worksheet. A weightlifter pumps iron at a gym, and a lesson about force and mass is driven home.

Families Involved in Educational Sociocultural Teaching and STEM — better known as FIESTAS — helps spark students’ interest in math and science by showing how they’re part of everyday life. This after-school program, led by Oregon State student teachers, involves children from diverse backgrounds, as well as their families. FIESTAS also brings in the community by tapping local businesses to serve as classrooms and hands-on labs.

Inspiration can come from unexpected places, even ordinary ones, when you make connections out there.

Kids in the FIESTAS project take part in activities with Ana Lu Fonseca to help build their math skills.
to learn a bakery.
The way to serve people across the state of Oregon is to go across the state.

You'll find us all over Oregon. Researchers and OSU Extension Service agents who use autonomous aerial vehicles and precision irrigation to help farmers in Eastern Oregon achieve higher yields with less water. Freshly minted graduates of OSU-Cascades who earn their degrees in Central Oregon and stay to launch their careers. Faculty and volunteers who run statewide youth programs, like Juntos, and help turn the idea of going to college from unlikely to definitely.

Oregon is our campus. So wherever you see us out there, be sure to say “hello.”
Research shows textbook costs are one of the major barriers to students’ completing their education.

Barrier, meet wrecking ball.

This fall, students in a three-course biology sequence on human anatomy and physiology will use a free, online textbook, featuring interactive animations of molecular, cellular and organismal processes. It’s one of 21 open-source textbooks in use or in production at Oregon State, covering subject areas like business, plant science, oceanography, hydrology and computer science.

The free biology textbook is expected to eliminate $100,000 in student spending each year. It’s one way we’re making college more affordable — and graduation more likely.

We’re fighting the high cost of textbooks by producing free ones.
Our enthusiasm is contagious. Catch it.

That drive to serve others, to help everyone live in better health, wealth and being, is something we’re happy to share.

Paulina Nguyen caught it at an early age. She skipped multiple grades to graduate high school at 16, earned her bachelor’s degree with honors in three years, then enrolled in the College of Pharmacy’s Pharm. D./MBA dual-degree program. Today, she’s a pharmacy administration resident at the Veterans Affairs Medical Center in Portland. And whether it’s reviewing patient records to prevent drug interactions or simply talking one-on-one to understand patients’ questions and concerns, Nguyen is doing what she’s always wanted to do.

When passion meets purpose, the results can be phenomenal. That’s why we put ourselves out there.