

Office of Research

SUPPORTING THE RESEARCH ENTERPRISE & ENABLING FACULTY SUCCESS

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**Oregon State
University**

Background and Experience

Understanding the entire research enterprise as a....

- Researcher
- Research Administrator
- Program Manager

Vision: Enable, Partner, and Advocate

1. RO as an enabler and partner
2. OSU as a preferred strategic partner
3. OSU as a destination with cutting edge facilities
4. OSU as a leader and model for faculty development

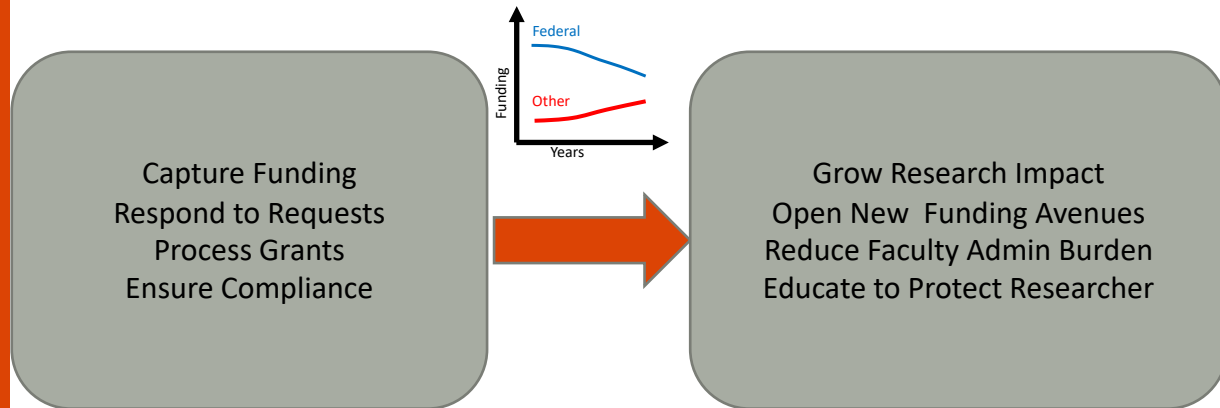
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First few months in action....

- Listening sessions & benchmarking
- Organizational and personnel changes
- Training for IRB and IACUC IO role
- Addressing climate and culture in the RO
- Evaluation of processes and policies
- Engaging ADRs, C/I directors, and the Research Council
- Critical university-level conversations:
 - Budget
 - Risk appetite
 - F&A renegotiation
 - Large project oversight
 - National security
 - Union bargaining
 - Infrastructure
 - Promotion & Tenure
 - Compliance
 - Accreditation

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Shifting Funding Dynamics Driver for Strategic RO Role



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Focus on Research Mission in SP 4.0

- Further building world-class faculty
- Expanding and strengthening our research infrastructure
- Producing the next generation of scholars
- Growing our signature areas of distinction
- Creating opportunities for undergraduates to participate in our research and discovery mission
- Supporting entrepreneurship and innovation

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Challenges for the Research Enterprise

- Increased competition for federal and state funding
 - *Diversify our Funding Portfolio*
- No capacity for doing upfront development work
 - *Establish OSU as a Strategic Partner*
- Lack of a holistic economic development strategy
 - *Increase OSU's Economic Impact*
- Increasing administrative demands due to stricter regulations
 - *Reexamine OSU's Risk Appetite*
- Quality of our research infrastructure
 - *Enhance OSU's Research Infrastructure*

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SP 4.0 Areas of Strength

- Revolutionary Earth Systems Science
- Leading in Health and Wellness
- Advancing Economic Prosperity and Social Progress

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Working with the Colleges

Where do we want to be 10 years from now?

- New areas of growth?
- New partnerships?
- Unique strengths?
- Funding opportunities?
- Metrics to increase profile?
- Land grant mission impact?
- Innovation and entrepreneurship?

What can we collectively do to impact faculty success?

- Design faculty development workshops
- Build research development capacity
- Advocate for infrastructure
- Visit agencies

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Key Factors in Enabling Faculty Success

Learning time management

Being accountable for research

Asking for help

Participating in faculty development workshops

Building a network of peers and senior faculty

Getting visibility with agencies (perseverance and stubbornness)

Seeking collaborations

Having proposals and white papers ready to go

Writing papers with students

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Supporting & Junior Enabling Faculty Success

- Helping faculty form a mentor network
- Implementing yearly reviews of performance (research & teaching)
- Ensuring a balanced workload for service and teaching
- Implementing rigorous and effective development workshops
- Encouraging senior faculty to include junior faculty in proposals
- Financing professional development and grant writing support
- Seeding research collaborations strategically
- Provide travel funds to visit agencies in teams of junior and senior faculty
- Providing training in graduate student mentoring (incl. bias & harassment)

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Supporting Mid-Career Faculty

- Events and seed funding for building collaborations
- Incentives to start new research and bridge funding
- Cost matching strategic and high-impact grants
- Faculty development to navigate federal agencies, industry partnerships
- Travel funding to visit agencies
- Recognition and rewarding of innovation and entrepreneurship efforts
- Leadership training opportunities
- Balanced service load
- National and international awards
- Incentives for becoming a good mentor

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Q&A

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Backup Slides – SP 4.0

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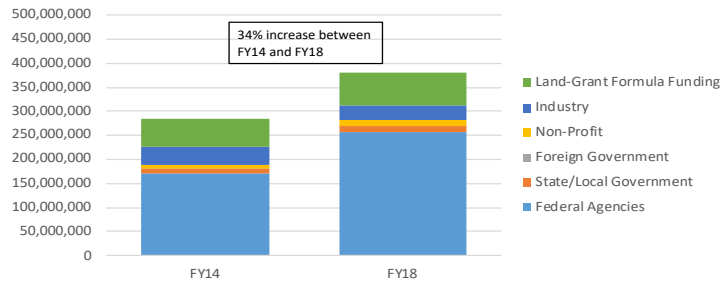
Significance of OSU's Research Mission

- R1 university standing:
 - 1 of 115 out of 4600 colleges and universities in US
 - 1 of 37 to carry R1 and land-grant designation

- Our role and responsibilities as an R1 and land-grant university:
 - Blending large scale discovery and education
 - Connecting work in our labs and classrooms directly to the people

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Total R&D Award Comparisons
FY14 and FY18

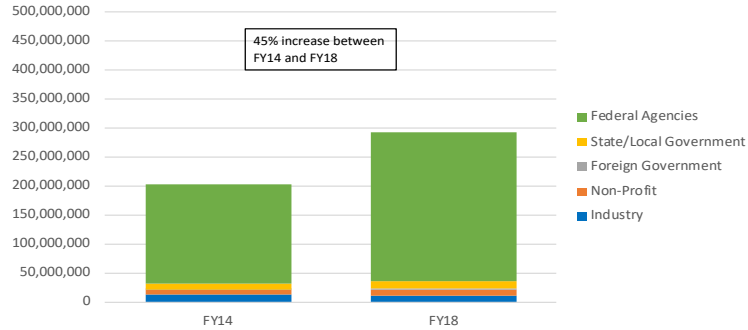


	FY14	FY18
Land-Grant Formula Funding	58,829,591	69,134,602
Industry	36,226,833	31,432,999
Non-Profit	8,550,522	11,737,836
Foreign Government	979,033	197,150
State/Local Government	9,485,376	12,677,044
Federal Agencies	170,547,940	256,450,159
TOTAL	284,619,295	381,629,790

Source: RO Annual Award Data. Note that this data includes sponsored project awards managed in the RO, as well as Foundation gifts, testing, licensing revenues in support of industry research, Federal and State Land-grant formula funding

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Total Sponsored Project Award Comparisons FY14 and FY18



	FY14	FY18
Industry	13,021,239	11,520,493
Non-Profit	8,191,175	11,391,979
Foreign Government	979,033	197,150
State/Local Government	9,485,376	12,677,044
Federal Agencies	170,547,940	256,450,159
TOTAL	202,224,763	292,236,825

Source: RO Annual Award Data for awards resulting from proposal submissions

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FY2014 and FY2018 Research Awards and Expenditures per College

College*	FY14 Data			FY18 Data		
	T/TT**	Awards	Expenditures***	T/TT**	FY18 Awards	FY18 Expenditures***
Cascades Campus	19	1,312,216	772,575	18	906,468	1,040,900
Centers and Institutes	0	23,902,741	20,297,762	0	21,198,195	20,056,746
College of Agricultural Sciences	169	45,446,585	83,786,967	172	49,009,912	94,071,428
College of Business	47	1,670,808	1,119,523	52	(85,778)	88,263
College of Earth, Ocean and Atmospheric Science	77	41,488,436	40,999,854	75	120,217,246	59,766,469
College of Education	17	1,558,206	1,190,323	15	590,849	860,379
College of Engineering	142	38,193,403	30,579,942	167	37,570,247	45,209,228
College of Forestry	49	10,636,319	21,259,902	49	11,042,684	20,231,754
College of Liberal Arts	158	606,003	833,003	174	2,517,058	1,752,354
College of Pharmacy	25	3,899,708	1,873,138	24	4,913,235	6,226,288
College of Public Health and Human Science	55	16,361,632	15,894,978	61	20,334,912	20,401,084
College of Science	117	9,924,152	16,686,065	121	11,923,163	15,941,252
College of Veterinary Medicine	36	3,906,737	3,047,116	32	2,934,504	3,898,722
Total	911	202,224,763	238,341,148	960	292,236,825	289,544,869

*Non-academic units are excluded

**Tenured/Tenure Headcount

***Definition of Research Expenditures for these metrics:

All restricted funds administered by the Research Office (includes Other Sponsored Activities, as well as Federal and non-Federal Ag. Exp. Station and Forest Res. Lab)

Does not include endowments, gifts, construction, financial aid

Sources: Award and Expenditure Data from Research Office Annual Report; Tenured/Tenure-Track Faculty Headcount from Institutional Research

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FY2014-18 Inventions, Licensing Revenues, and Industry Sponsored Research Awards by College

Invention Disclosures	FY14	FY15	FY16	FY17	FY18	Total
Agricultural Sciences	16.5	16.0	16.1	14.0	20.5	83.1
Business	0.0	0.0	0.3	0.0	0.0	0.3
Earth, Ocean and Atmospheric Sciences	1.0	0.0	2.6	1.0	1.0	5.6
Education	0.0	1.0	1.0	0.0	0.0	2.0
Engineering	23.0	25.5	23.8	35.0	32.5	139.8
Forestry	2.5	4.5	3.5	3.0	2.5	16.0
Liberal Arts	0.0	0.0	0.3	0.0	0.0	0.3
Pharmacy	4.0	11.0	8.0	6.0	7.5	36.5
Public Health and Human Sciences	0.0	4.0	0.0	1.0	2.0	7.0
Science	13.5	8.0	11.0	7.0	8.0	47.5
Veterinary Medicine	1.5	2.0	3.5	1.0	3.0	11.0
Other (C&I)	0.0	0.0	0.0	0.0	1.0	1.0
Total	62.0	72.0	70.0	68.0	78.0	350.0

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FY2014-18 Inventions, Licensing Revenues, and Industry Sponsored Research Awards by College

Licensing Revenue	FY14	FY15	FY16	FY17	FY18	Total
Agricultural Sciences	\$ 2,944,624	\$ 2,674,061	\$ 2,926,233	\$ 2,110,811	\$ 2,330,306	\$ 12,986,034
Business	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Earth, Ocean and Atmospheric Sciences	\$ 26,893	\$ 21,347	\$ 35,400	\$ 24,623	\$ 15,933	\$ 124,196
Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering	\$ 1,556,512	\$ 6,313,124	\$ 345,973	\$ 830,597	\$ 1,253,911	\$ 10,300,117
Forestry	\$ 718,045	\$ 630,689	\$ 676,769	\$ 773,634	\$ 100,034	\$ 2,899,171
Liberal Arts	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Pharmacy	\$ 208,276	\$ 226,699	\$ 337,851	\$ 134,222	\$ 300,348	\$ 1,207,396
Public Health and Human Sciences	\$ 2,035	\$ 4,010	\$ 8,287	\$ 9,583	\$ 7,534	\$ 31,449
Science	\$ 425,920	\$ 312,026	\$ 135,816	\$ 121,379	\$ 157,956	\$ 1,153,096
Veterinary Medicine	\$ -	\$ 3,000	\$ -	\$ -	\$ 5,000	\$ 8,000
Other (C&I)	\$ 55,960	\$ 108,185	\$ 678,108	\$ 73,403	\$ 230,166	\$ 1,145,822
Total	\$ 5,938,265	\$ 10,293,140	\$ 5,144,438	\$ 4,078,251	\$ 4,401,187	\$ 29,855,281

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FY2014-18 Inventions, Licensing Revenues, and Industry Sponsored Research Awards by College

Industry Sponsored Research	FY14	FY15	FY16	FY17	FY18	Total
Agricultural Sciences	\$ 3,026,639	\$ 743,212	\$ 969,661	\$ 719,221	\$ 677,537	\$ 6,136,270
Business	\$ 559,428	\$ 35,775	\$ 58,507	\$ -	\$ -	\$ 653,710
Earth, Ocean and Atmospheric Sciences	\$ 70,814	\$ 256,491	\$ 361,312	\$ 181,897	\$ -	\$ 870,514
Education	\$ -	\$ -	\$ -	\$ -	\$ 20,000	\$ 20,000
Engineering	\$ 2,075,776	\$ 4,195,034	\$ 4,327,015	\$ 3,813,492	\$ 3,262,488	\$ 17,673,805
Forestry	\$ 66,250	\$ 194,912	\$ 36,987	\$ 225,199	\$ 99,749	\$ 623,097
Liberal Arts	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Pharmacy	\$ 701,406	\$ 465,998	\$ 273,977	\$ 1,040,034	\$ 16,153	\$ 2,497,568
Public Health and Human Sciences	\$ 26,946	\$ 15,000	\$ 44,000	\$ 83,600	\$ 49,179	\$ 218,725
Science	\$ 123,844	\$ 95,004	\$ 23,828	\$ 216,556	\$ 287,489	\$ 746,721
Veterinary Medicine	\$ 80,651	\$ 158,447	\$ 433,517	\$ 816,501	\$ 512,852	\$ 2,001,968
Other (C&I)	\$ 503,039	\$ 1,032,523	\$ 1,185,981	\$ 990,090	\$ 411,502	\$ 4,123,135
Total	\$ 7,234,792	\$ 7,192,396	\$ 7,714,785	\$ 8,086,590	\$ 5,336,949	\$ 35,565,512

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