OCTOBER 20, 2022 ATTACHMENT 28 HIGHER EDUCATION RESEARCH - PERFORMANCE MEASURES Goal 1: Increased research at, and collaboration among, Idaho universities and colleges to advance research strengths and opportunities pertaining to critical issues in Idaho, while also providing a vision for national and global impact. Objective 1.A: Ensure growth and sustainability of public university research efforts. **Performance Measure** FY 2016 FY 2017 FY2018 FY2019 FY2020 FY2021 FY2022 **Benchmark** Statewide amount of total annual research and development expenditures as reported in the National Science Foundation \$154,989,123 | \$163,093,485 | \$171,052,983 | \$166,564,099 | \$170,635,458 | \$165,912,523 (NSF) Higher Education Research and Development Survey NA 10% annual increase Objective 1.B: Ensure the growth and sustainability of the existing collaborative research at the Center for Advanced Energy Studies (CAES). Statewide amount of U.S. Department of Energy (DOE) research and development expenditures as reported in the National Science Foundation (NSF) Higher Education Research \$11,022,015 | \$11,724,216 | \$13,187,742 and Development Survey. \$8,561,218 \$9,489,612 \$13,559,863 NA 10% annual increase Objective 1.C: Expand joint research ventures among the state universities. Number of new fully sponsored project proposals submitted by an Idaho University that involve a subaward with another Idaho institution of higher education (in either direction). 92 119 100 82 94 82 50 50% annual increase Number of new fully sponsored project awards to an Idaho University that involve a subaward with another Idaho institution of higher education (in either direction). 58 76 50 34 26 30% annual increase 70 69 UI*/BSU/ISU -Dr. Karen Humes -Establish/fund at least one HERC-directed research project per Integrated year which collaborates with one other Idaho university that Water, Energy and Waste directly addresses issues of particular importance to the State NA Management 1 per year Goal 2: Create research and development opportunities that strengthen the relationship between state universities and the private sector.

Objective 2 A.	Increase the number of sponsored projects involving the private sector.
Upplective Z.A.	increase the number of sponsored projects involving the private sector.

Performance Measure FY 2016 FY 2017 FY2018 F	FY2019	FY2020	FY2021	FY2022	Benchmark
Number of new sponsored projects involving the private					
sector. 165 163 172	202	206	193	98	50% annual increase

Goal 3: Contribute to the economic development of the State of Idaho.

Objective 3.A: Increase the amount of university-generated intellectual property introduced into the marketplace.

FY 2016	FY 2017	FY2018	FY2019	FY2020	FY2021	FY2022	Benchmark
44	33	29	29	28	37	37	15% annual increase
							1 for every \$2M of
40	38	45	46	58	49	17	research expenditures
\$724,316	\$1,271,819	\$ 1,869,718	\$ 2,607,055	\$ 3,450,773	\$ 2,626,859	\$ 14,506	10% annual increase
8	1	1	1	0	0	1	10% annual increase
	44 40	44 33 40 38	44 33 29 40 38 45	44 33 29 29 40 38 45 46	44 33 29 29 28 40 38 45 46 58	44 33 29 29 28 37 40 38 45 46 58 49	44 33 29 29 28 37 37 40 38 45 46 58 49 17 \$724,316 \$1,271,819 \$ 1,869,718 \$ 2,607,055 \$ 3,450,773 \$ 2,626,859 \$ 14,506

Goal 4: Enhance learning and professional development through research and scholarly activity.

Objective 4.A: Increase the number of university and college students and staff involved in sponsored project activities.

Performance Measure	FY 2016	FY 2017	FY2018	FY2019	FY2020	FY2021	FY2022	Benchmark
Number of undergraduate students paid from sponsored								
projects.	1,683	1,811	2,100	1,926	1,993	2,050	1,651	20% annual increase
Number of graduate students paid from sponsored projects.	636	716	656	592	536	530	176	20% annual increase
	UI: 60.4%,	UI: 66.0%,	UI: 62.7%,	UI: 64.4%	UI: 58.1%	UI: 57.6%	UI: 0.0%	
Percentage of baccalaureate students who graduated in STEM	BSU: N/A,	BSU: N/A,	BSU: N/A,	BSU: N/A	BSU: N/A	BSU: N/A	BSU: N/A	
disciplines and had a research experience.	ISU: 13%	ISU: 12.1%	ISU: 19.6%	ISU: 12.7%	ISU: 19.1%	ISU: 19.0%	ISU: 14.1%	20% annual increase
Number of faculty and staff paid from sponsored projects.	2,272	2,383	2,418	2,446	2,484	2,563	1,455	20% annual increase

Number of faculty and staff paid from sponsored projects.	2,272	2,383	2,418	2,446	2,484	2,563	1,455	20% annual increase
K-20 Statewide Stratgic Plan Performance Measures	FY 2016	FY 2017	FY2018	FY2019	FY2020	FY2021	FY2022	Benchmark
			UI: 61%,	UI: 58.4%	UI: 59.6%	UI: 55.5%	UI: 52.7%	
Percentage of students participating in undergraduate			BSU: 37%	BSU: 43.0%	BSU: 43.0%	BSU: 34.0%	BSU: 36.3%	
research.	48%	51%	ISU: 45%	ISU: 37.7%	ISU: 36.2%	ISU: 37.0%	ISU: Note:	30%
Number of student internships	2,294	2,177	2,156	2,127	2,174	2,020	2,038	

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Idaho State University

Idaho State U	·						
Performance Measure	FY 2016	FY 2017	FY 2018	FY2019	FY2020	FY2021	FY2022
Statewide amount of total annual research and development expenditures as reported in the National Science Foundation (NSF) Higher Education Research and Development Survey	\$20,447,000	\$18,564,000	\$18,081,000	\$14,972,000	\$14,478,000	\$13,953,000	
Statewide amount of U.S. Department of Energy (DOE) research and development expenditures as reported in the National Science Foundation (NSF) Higher Education Research and Development Survey.	\$3,122,000	\$3,290,000	\$3,383,000	\$2,255,000	\$3,310,000	\$2,810,000	
Number of new fully sponsored project proposals submitted by an Idaho University that involve a subaward with another Idaho institution of higher education (in either direction).	30	29	27	30	43	38	23
Number of new fully sponsored project awards to an Idaho University that involve a subaward with another Idaho institution of higher education (in either direction).	27	32	35	41	18	17	20
Number of new sponsored projects involving the private sector.	65	65	78	86	96	82	69
Number of technology transfer agreements (as defined by AUTM [Association of University Technology Managers]).	2	0	0	0	0	0	0
Number of invention disclosures	6	3	7	0	2	3	4
(including plant varieties) Amount of licensing revenues.	\$100,000	\$0	\$0	\$0	\$0	\$0	\$50
Number of startup companies.	3	1	0	0	0	0	\$50
Number of undergraduate students paid from sponsored projects.	150	169	199	158	150	176	217
Number of graduate students supported by sponsored projects	173	172	156	125	118	140	176
Number of baccalaureate students who graduated in STEM disciplines and had a research experience.				325	211	228	145
Percentage of baccalaureate students who graduated in STEM disciplines and had a research experience.	13.00%	12.10%	19.56%	12.70%	19.11%	19.00%	14.06%
Number of faculty and staff paid from sponsored projects.	257	247	192	170	163	187	221
K-20 Statewide Stratgic Plan Performance Measures							
Percentage of students participating in undergraduate research.	43%	42%	41%	38%	36%	37%	37%
Total amount of research expenditures	\$27,670,658	\$20,447,000	\$11,990,499	\$9,679,295	\$10,373,549	\$8,718,443	\$10,761,064
Institution expenditures from competitive Federally funded grants	\$22,215,191	\$19,557,131	\$17,798,317	\$15,344,558	\$13,185,550	\$26,853,236	\$15,566,020
Institution expenditures from competitive industry funded grants	\$1,411,000	\$1,940,336	\$1,911,606	\$1,846,551	\$2,450,614	\$1,815,117	\$2,069,761
Measure of production of intellectual property:							
Number of startups	3	1	0	0	0	0	0
Number of patents	11	0	1	1	1	2	1
Number of Student internships Percentate of students participating in	896	904	898	877	831	926	835
interpolate of students participating in	7.1%	7.6%	7.9%	8.0%	7.7%	8.8%	7.9%

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University of Idaho

University of its		EV0047	EV0040	EV0040	EVOCCO	EV0004	EVOCCO
Performance Measure	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
Statewide amount of total annual research and	\$102,457,123	\$109,537,485	\$111,589,983	\$111,766,099	\$112,850,458	\$105,894,523	
development expenditures as reported in the							
National Science Foundation (NSF) Higher							
Education Research and Development Survey							
(See Note B below)	Ф2 CO4 240	£4.400.640	#2 026 04 <i>E</i>	ΦΕ OGE 046	ΦE 200 742	ΦE 400 060	
Statewide amount of U.S. Department of Energy	\$3,694,218	\$4,128,612	\$3,926,015	\$5,065,216	\$5,309,742	\$5,408,863	
(DOE) research and development expenditures							
as reported in the National Science Foundation							
(NSF) Higher Education Research and							
Development Survey.	40			4-		40	
Number of new fully sponsored project proposals	18	30	23	17	16	18	
submitted by an Idaho University that involve a							
subaward with another Idaho institution of higher							
education (in either direction).							
Number of new fully sponsored project awards to	12	12	14	9	11	6	
an Idaho University that involve a subaward with							
another Idaho institution of higher education (in							
either direction).							
Number of new sponsored projects involving the							
private sector (see Note A below).	65	65	66	82	77	76	
Number of technology transfer agreements (as	13	5	5	4	6	15	
defined by AUTM [Association of University			-		J		
Technology Managers]).							
Number of invention disclosures (including plant	18	21	24	26	35	30	
varieties)	10	2 1	21	20	00		
Amount of licensing revenues.	\$570,469	\$1,232,588	\$1,844,878	\$2,549,919	\$3,434,777	\$2,621,175	
Number of startup companies.	0	0	0	0	0	0	
Number of undergraduate students paid from	697	696	765	660	657	660	
sponsored projects.	007	000	700	000	001	000	
Number of graduate students supported by	463	544	500	467	418	390	
sponsored projects	400	544	300	407	410	050	
Number of baccalaureate students who graduated in	366/606	403/611	360/574	386/599	387/666	339/589	
STEM disciplines and had a research experience (Note	300/000	403/011	000/07-4	380/333	387/000	333/383	
•							
B)	CO 400/	CE 0E0/	CO 740/	C4 440/	FO 440/	F7 F00/	
Percentage of baccalaureate students who	60.40%	65.95%	62.71%	64.44%	58.11%	57.56%	
graduated in STEM disciplines and had a							
research experience. (*Note B*)							
Number of faculty and staff paid from sponsored	1,231	1,269	1263	1293	1268	1276	
projects.							
K-20 Statewide Strategic Plan Performance							
Measures							
	58.80%	64.58%	61.07%	58.36%	59.57%	55.53%	52.68%
Percentage of students participating in							
undergraduate research. (*Note B*)							
Total amount of research expenditures	\$55,893,584	\$57,114,745	\$57,082,023	\$57,612,801	\$57,934,326	\$55,878,740	
Institution expenditures from competitive							
Federally funded grants	\$63,328,954	\$64,092,411	\$65,309,507	\$65,138,101	\$69,162,654	\$68,022,683	
Institution expenditures from competitive industry							
funded grants (see Note A below).	\$5,300,451	\$4,801,296	\$5,225,755	\$5,580,184	\$6,610,854	\$5,579,950	
private sector	\$1,825,722	\$1,804,800	\$1,758,830	\$1,742,295	\$2,662,227	\$2,004,386	
private sector federal flow through	\$3,474,729	\$2,996,496	\$3,466,925	\$3,837,889	\$3,948,627	\$3,575,564	
Measure of production of intellectual property:	·		·		·		
Number of startups	0	0	0	0	0	0	
Number of patents	3	1	1	0	4	1	
	909	879					
Number of student internships			812	789	854	691	709
Training of Graderic internetings	6.64% (909 of	6.42% (879 of	5.65%	5.62%	6.17%	5.54%	5.68%
	13700)	13700)	0.0070	0.0270	J	0.0170	0.0070
Percent of student internships	10700)	10700)					
r Groom or student internatilps							
Number of students participating in	992	1,001	812	789	854	691	709
undergraduate research (Note B)	332	1,001	UIZ	109	004	031	109
Performance Measure Explanatory Notes:							

Performance Measure Explanatory Notes:

Note A - Activity with private sector/industry - (a) is funding from private sector, and (b) is funding from private sector, federal flow through.

Note B - Due to process improvement, previous years have been corrected to reflect correct figures.

	2016	2017			
Institution expenditures from competitive industry	\$1,825,722 (a);	\$1,804,800 (a);			
funded grants (Note A)	\$3,474,729 (b)	\$2,996,496 (b)			
	2016	2017			
Number of new sponsored projects involving the					
private sector (See Note A above)	47 (a); 18 (b)	47 (a); 19 (b)			

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Boise State University

Statewide amount of total annual research and development expenditures as reported in the National Science Foundation (NSF) Higher Education Research and Development Survey Statewide amount of U.S. Department of Energy (DOE) research and development expenditures as reported in the National Science Foundation (NSF) Higher Education Research and Development Survey. Number of new fully sponsored project proposals submitted by an Idaho University that involve a subaward with another Idaho institution of higher education (in either direction). [1] Number of new fully sponsored project awards to an Idaho University that involve a subaward with another Idaho institution of higher education (in either direction).[2] Number of new sponsored projects involving the private sector. [3] Number of technology transfer agreements (as defined by AUTM [Association of University Technology Managers]). Number of invention disclosures (including plant varieties) Amount of licensing revenues.* Number of startup companies. Number of startup companies. Number of graduate students paid from sponsored projects. Number of graduate students who graduated in STEM disciplines and had a research experience (Note B) Percentage of baccalaureate students who graduated in STEM disciplines and had a research experience.** Number of faculty and staff paid from sponsored projects. K-20 Statewide Stratgic Plan Performance Measures Percentage of students participating in undergraduate research.	35 29 16 \$53,847 5 836	\$34,992,000 \$2,071,000 60 26 33 28 14 \$39,231 0 946	\$41,382,000 \$3,713,000 50 27 28 24 14 \$24,840 1 1136	\$39,826,000 \$4,404,000 35 19 34 25 20 \$57,136 1 1108	\$ 43,307,000.00 \$ 43,307,000.00 \$ 4,568,000.00 35 21 21 21 \$15,996 0 1186	\$ 46,065,000.00 \$ 5,341,000.00 26 11 35 22 16 \$5,684 0 1214	FY2022 27 6 29 37 13 \$14,456 1 1434
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Amount of licensing revenues.* Sumber of startup companies. Sumber of undergraduate students paid from sponsored projects. Sumber of graduate students supported by sponsored projects. ** Number of baccalaureate students who graduated in STEM disciplines and had a research experience Note B) Percentage of baccalaureate students who graduated in STEM disciplines and had a research experience.** Number of faculty and staff paid from sponsored projects. C-20 Statewide Stratgic Plan Performance Measures Percentage of students participating in andergraduate research. Total amount of research expenditures	\$53,847 5 836	\$39,231 0	\$24,840 1	\$57,136 1	\$15,996 0	\$5,684 0	\$14,456 1
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Jumber of graduate students supported by ponsored projects. ** Jumber of baccalaureate students who graduated in TEM disciplines and had a research experience Note B) Percentage of baccalaureate students who graduated in STEM disciplines and had a research experience.** Jumber of faculty and staff paid from sponsored projects. Z-20 Statewide Stratgic Plan Performance Measures Percentage of students participating in andergraduate research.		946	1136	1108	1186	1214	1434
Jumber of graduate students supported by ponsored projects. ** Jumber of baccalaureate students who graduated in TEM disciplines and had a research experience Note B) Percentage of baccalaureate students who graduated in STEM disciplines and had a research experience.** Jumber of faculty and staff paid from sponsored projects. C-20 Statewide Stratgic Plan Performance Measures Percentage of students participating in andergraduate research.							
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C-20 Statewide Stratgic Plan Performance Measures Percentage of students participating in undergraduate research. Total amount of research expenditures							
C-20 Statewide Stratgic Plan Performance Measures Percentage of students participating in undergraduate research.	784	867	963	983	1053	1100	1234
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undergraduate research. Fotal amount of research expenditures							
undergraduate research. Total amount of research expenditures							
Fotal amount of research expenditures	35.20%	37.40%	37.00%	43.00%	43.00%	34.00%	36.30%
						4	
nstitution avnandituras from compatitiva Fadarally - 19	\$18,865,799	\$21,094,099	\$27,718,837	\$27,011,840	\$29,828,258	\$34,718,954	\$35,272,900
· · · · · · · · · · · · · · · · · · ·	\$19,306,479	\$21,172,738	\$26,311,205	\$26,190,711	\$28,502,836	\$35,423,892	\$42,021,306
unded grants							
	\$2,020,959	\$2,939,578	\$3,836,908	\$3,620,844	\$3,577,275	a. \$666,167.25	a. \$652,559.69 b. \$1,983,532.61
unded grants						b. \$2,866,041.31	
private sector \$	\$562,457	\$681,147	\$674,882	\$259,884	\$441,074	\$666,167	652,559.69
	\$1,458,501	\$2,258,432	\$3,162,027	\$3,360,960	\$3,136,201	\$2,866,041	\$1,983,533
Measure of production of intellectual property:							
Number of startups 5	5	0	1	1	0	0	1
Number of patents 4	4	3	3	2	5	1	8
Number of disclosures 1	16	14	14	20	21	16	13
Number of Student internships [4]	489	394	446	461	489	403	494
lumber of students participating in indergraduate research	490	567	494	459	459	352	400

- [1] Represents the number of full proposal submissions that involved a financial relationship with another Idaho institution of higher education.
- [2] Represents the number of new awards that involved a financial relationship with another Idaho institution of higher education.
- [3] Represents the number of new awards that involved a financial relationship with the private sector.
- [4] Internship information is based on estimates by academic year (e.g., FY09=Academic year Summer 2008 through Spring 2009).
- * 2013, 2014 Licensing revenue includes \$30k/year for Micron Licensing Restriction Agreement and is not considered net for OTT.
- **Undergraduate and Graduate student totals have been combined into one line as BSU does not have the ability to break this information out.
- **Undergraduate and Graduate student totals have been combined into one line as BSU does not have the ability to break this information out.
- ***FY20 data reflects the prior year. Boise State did not administer the Graduating Student Survey in FY20 because of disruptions due to COVID-19.
- ****Number includes non-profit DOE national laboratory contractors.

	2016	2017
Institution expenditures from competitive industry	a. \$562,457.27	a. \$681,146.82
funded grants	b. \$1,458,502.01	b. \$2,258,431.54

	2016	2016
Number of new sponsored projects involving the	a) 22; b) 13	a) 17; b) 16
private sector. [3]		

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Definitions - Approved FY16		
Performance Measure	How collected/reported	Benchmark
	How collected/reported	Benchmark
Statewide amount of total annual research and		
development expenditures as reported in the National		
Science Foundation (NSF) Higher Education Research and		
Development Survey		10% annual increase
Statewide amount of U.S. Department of Energy (DOE)		
research and development expenditures as reported in		
the National Science Foundation (NSF) Higher Education		
Research and Development Survey.		10% annual increase
Number of new fully sponsored project proposals	Collaborative new full proposal submissions that include subawards to or awards	
submitted by an Idaho University that involve a	from other Higher Education institution in Idaho (excludes private higher	
subaward with another Idaho institution of higher	education institutions).	
education (in either direction).		50% annual increase
Number of new fully sponsored project awards to an	Collaborative new awards that include subawards to or awards from other	
Idaho University that involve a subaward with another	Higher Education institutions in Idaho (excludes private higher education	
Idaho institution of higher education (in either direction).	institutions).	30% annual increase
	New awards with Private Sector – to include those that will be awarded from or	
	has subawards to private sector entities, which includes all for profit companies	
	whether domestic or foreign. Number will be broken out as follows: (a) is funding	
Number of new sponsored projects involving the private	from private sector, and (b) is federal flow through funding passing through a	
sector.	private sector entity.	50% annual increase
by AUTM [Association of University Technology	private sector entity.	30% arritar increase
1 '		150/ appeal increase
Managers]).		15% annual increase
varieties)	Self explanatory	1 for every \$2M of research expenditures
Amount of licensing revenues.	Self explanatory	10% annual increase
Number of startup companies.	Self explanitory	10% annual increase
Number of undergraduate and graduate	Represents the number of students (undergraduate & graduate) paid salary, or	
students paid from sponsored projects.	receiving tuition from sponsored projects.	20% annual increase
Percentage of baccalaureate students who graduated in		
STEM disciplines and had a research experience.	Raw numbers and percentages	20% annual increase
Number of faculty and staff paid from sponsored	Represents the number of faculty and staff paid salary from sponsored projects.	
projects.		20% annual increase
K-20 Statewide Stratgic Plan Performance Measures		
Percentage of students participating in undergraduate		
research.	Raw numbers and percentages	30%
Total amount of research expenditures		
Institution expenditures from competitive Federally		
funded grants		\$112M annually
	New awards with Private Sector – to include those that will be awarded from or	
	has subawards to private sector entities, which includes all for profit companies	
	whether domestic or foreign. Number will be broken out as follows: (a) is funding	
Institution expenditures from competitive industry	from private sector, and (b) is federal flow through funding passing through a	
funded grants	private sector entity. (same as above)	\$7.2M annually
Measure of production of intellectual property:		,
Number of startups	Same as above	10% annual increase
Number of patents	Same as above	10% annual increase
Number of disclosures	Same as above	10% annual increase
	Internship information is based on estimates by academic year (e.g.,	
	FY09=Academic year Summer 2008 through Spring 2009) and includes all student	
	internships with private industry where the student received university academic	
Number of internships	credit.	
Indition of infernishibs	orcan.	

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