

**ANNUAL REPORT OF THE UNIVERSITY RESEARCH BOARD (URB) AND
THE OFFICE OF RESEARCH AND PROJECT ADMINISTRATION (ORPA)
FISCAL YEAR 2018-2019**

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SECTION I

THIS SECTION FOCUSES ON SPONSORED RESEARCH EXPENDITURES FOR THE FISCAL YEAR 2019.

EXPENDITURES FOR SPONSORED RESEARCH

COMMENTARY AND ANALYSIS

I. EXPENDITURES FOR SPONSORED RESEARCH

BACKGROUND AND OVERVIEW

One of the world's great research institutions, Princeton University seeks to achieve the highest levels of distinction in the discovery and transmission of knowledge and understanding. Conducting cutting-edge research and maintaining an unparalleled commitment to teaching are activities central to the University's mission. The health of Princeton's research enterprise is vitally important to the University's success.

The superlative quality of research at Princeton is reflected in its ability to attract a significant and growing amount of extramural funding, even in the hypercompetitive funding environment of recent years. Such sponsored programs account for about fifteen percent of the University's total operating budget, and sponsored programs represent a significant portion of overall research expenditures at Princeton.

Sponsored research expenditures for Princeton's main campus totaled \$238.3M for FY2019. The Princeton Plasma Physics Laboratory (PPPL), a U.S. Department of Energy national laboratory for plasma physics and nuclear fusion science managed and operated by Princeton, recorded an additional \$104.3M in sponsored research expenditures during the same period.

Princeton has significantly grown the size of its sponsored research portfolio over the last decade (Chart 1). Moreover, reviewing a 10-year history of sponsored research expenditures at Princeton, expenditures from federal sources were up approximately 47% since FY2010 (\$132M in FY2010 to \$194M in FY2019). Over 80% of Princeton's extramural research funding comes from U.S. government sources, through both direct funding and government-funded subawards. The National Science Foundation and the National Institutes of Health continue to be Princeton's biggest sponsors overall, and funding from them represents over 60% of Princeton's federally-sponsored research.

Nationwide, federal investment in university-based research has been relatively steady over the last decade—without significant increases or decreases, save for the large if relatively short-lived increases of the American Recovery and Reinvestment Act of 2009. As of FY2019, federal investment presently appears to now be steadily increasing.

FY 2019 Statistics

Several tables and charts are provided to illustrate current and historical trends in sponsored research for Princeton's main campus and PPPL. Expenditures are described in actual dollars and have not been adjusted for inflation.

The grand total of FY2019 sponsored research expenditures for the University and PPPL combined was \$342.6M, an increase of 1.4% over the previous fiscal year's grand total of \$337.9M. University main campus expenditures were up over 7.7%, totaling \$238.3M, compared to \$221.3M in FY2018 (Chart 1 and Table 1). During the same time period, PPPL's expenditures were down by 10.5%, decreasing to \$104.3M from \$116.6M in FY2018.

Chart 2 shows the breakdown of expenditures, with direct costs ("operating costs") and indirect costs (\$163.1M and \$56.8M, respectively) both up (4.6% and 7.3%, respectively) while equipment expenditures increased 18.4% from the previous year. Student Aid/Training grant expenditures were up 76.6% from FY2018, due to Graduate School fellowships included in the totals (Table 2). If Graduate School Fellowships were not included, totals for Student Aid/Training grants would be down 7.8%.

Main Campus

Princeton researchers attract funding from a broad range of external sponsors, though the primary source of funding has historically been the U.S. government (federal agencies). The preponderance of government support (including both federal and state funding) in Princeton's sponsored programs portfolio continued in FY2019. Government funding comprises over 81% of all sponsored research expenditures at the University (Chart 3).

The five leading government sponsors were the National Science Foundation (NSF), National Institutes of Health (NIH), Department of Defense agencies (including the Army, Air Force, Navy, DARPA, NSA, DSCA, DTRA, NRO), National Aeronautics and Space Administration (NASA), and U.S. Department of Energy (DOE). These agencies provided, respectively, \$64.4M, \$58.4M, \$29.0M, \$15.2M, and \$14.7M during FY2019 (Table 1 and Chart 3). Chart 4 presents a five-year comparison (FY2015-2019) of government-sponsored expenditures by Prime agency.

Funding from non-government sources, increasingly important to the Princeton research portfolio, comprised the balance of the total research expenditures in FY2019 (Chart 5). This category includes foundations, industry, and private/other entities (e.g., educational institutions, hospitals, foreign entities, associations), which together represent 18.5% of Princeton's sponsored research expenditures. These sources were up almost 10% from the previous year (\$40.3/FY2018 and \$44.2M/FY2019) but compared to FY2015, it is up almost 25% (\$35.5M). Expenditures from private

foundations showed the largest increase, up almost 38% when compared to FY2015 expenditures (\$28.7M/FY2019, \$20.8M/FY2015).

Princeton Plasma Physics Laboratory (PPPL)

Chart 6 shows the history of PPPL's expenditures over the past 10 years. In this publication, FY2019 refers to the fiscal year as July 1 – June 30, which is consistent with the dates used for campus sponsored research expenditures. In other publications, PPPL budget authorization or expenditures may be reported using the U.S. DOE (federal) fiscal year of October 1 – September 30.

PPPL expenditures, which make up approximately 30% of total sponsored research expenditures in Princeton's research enterprise, were down significantly at \$104.3M in FY2019 compared to \$116.6M in FY2018. The decrease in expenditures can be attributed to the costs associated with the subcontracts for the \$25 million infrastructure line item construction project. The project was nearing completion by the end of FY2018. Approximately \$14 million in subcontract payments were issued in FY2018 vs \$1.0 million in FY2019.

Changes to the FY 2019 Annual Report

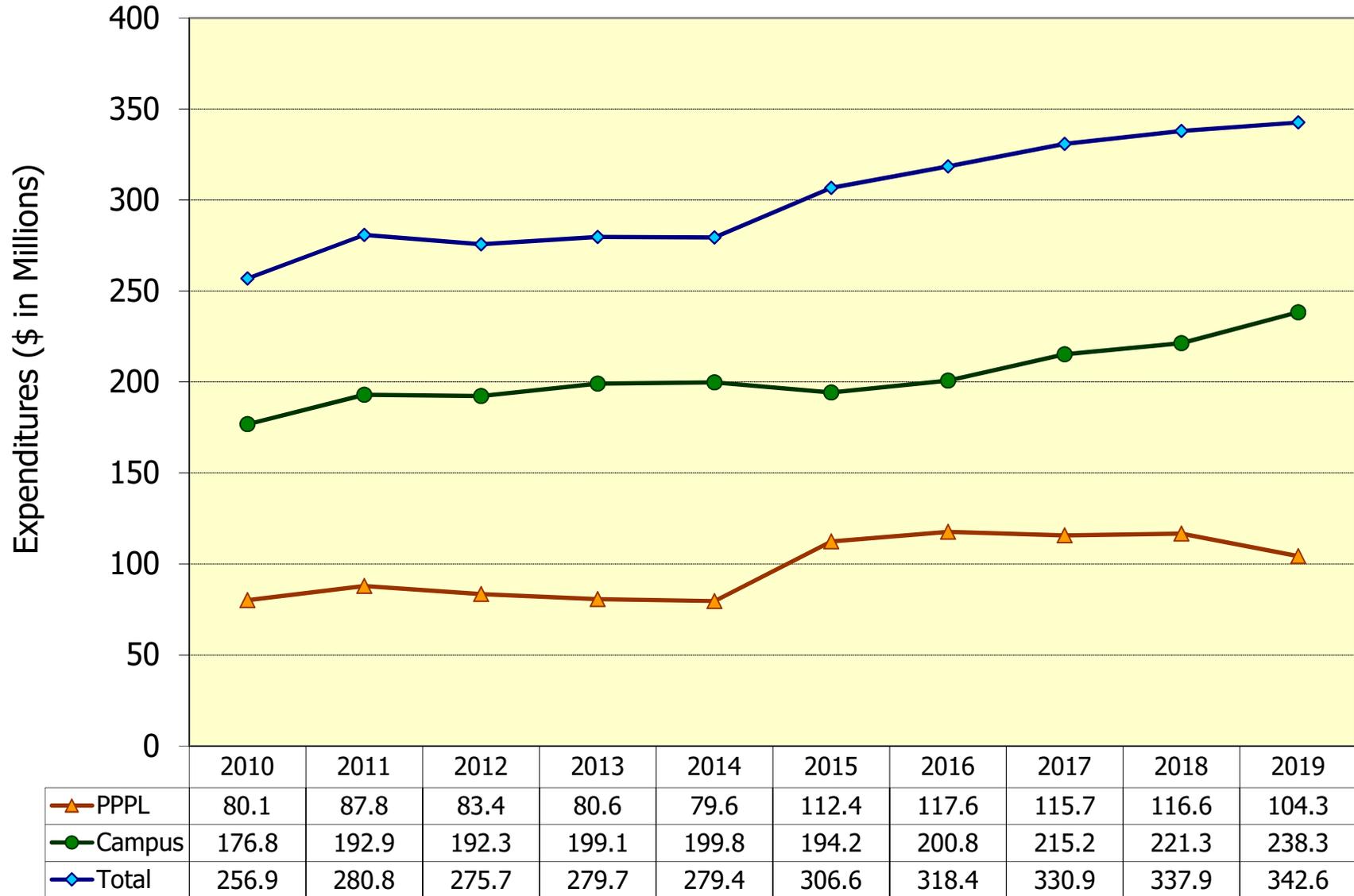
The FY2019 Annual Report includes the following changes:

- 1) We have included Graduate School Fellowships with total annual expenditures and they are included with the Non-Academic departments. This is a large increase for this category and for FY2019, it added over \$5M.
- 2) All awards are included in the count of awards. In previous years, only those awards that had expenditures of +/- \$1,000 and more were counted as an award.
- 3) Charts and Tables will only show expenditures from Prime/Flow through sources, rather than direct sources. Note that the expenditures section shows expenditures by Lead Investigator's Home Department.
- 4) The large award inventory by each department is omitted. This listing can be obtained in the Information Warehouse: University Financials - PRIME > Prime Financial Information Warehouse > Sponsored Research > Award Inventory

We also recommend using the Tableau site: <https://tableau.princeton.edu/> which has expenditure data that is included in this report, along with Proposal and Award information, which also represent key metrics in the Princeton research enterprise. Note that the Tableau site has Chartfield security.

Chart 1

HISTORY OF SPONSORED RESEARCH EXPENDITURES



SECTION I

TABLE 1

5 YEAR HISTORY BY PRIME SPONSOR*
SPONSORED PROJECT EXPENDITURES (\$1,000)

Sponsors, Campus					
	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
NSF	53,196	57,197	58,266	61,492	64,442
NIH	42,428	45,895	50,939	52,549	58,407
DOD	30,779	26,103	30,086	26,663	29,040
DOE	16,454	14,029	13,698	12,316	14,676
NASA	7,751	6,960	10,156	15,850	15,165
DOC (NOAA & NIST)	5,490	8,601	8,619	7,713	6,063
NI (IARPA & CIA)	**	1,091	3,210	2,769	3,351
Other (BBG, DOI, DOT, EPA, DoED, Misc)	2,206	2,090	866	890	2,216
NEH and NEA	9	8	188	62	86
NJ	408	584	899	710	704
TOTAL GOVERNMENT	158,722	162,559	176,927	181,015	194,152
TOTAL FOUNDATION	20,794	22,456	24,138	27,363	28,659
TOTAL INDUSTRIAL	8,642	10,197	9,973	10,653	12,884
TOTAL PRIVATE/OTHER	6,028	5,564	4,170	2,255	2,654
TOTAL, CAMPUS	\$194,186	\$200,775	\$215,208	\$221,286	\$238,349
Sponsors, Plasma Physics Lab***					
DOE	110,768	116,301	115,727	116,611	104,300
DoD-AF	393	103	NA	NA	NA
NSF	542	315	NA	NA	NA
Misc Govt - Bureau of Arms Ctrl	0	0	NA	NA	NA
TOTAL GOVERNMENT	111,703	116,719	115,727	116,611	104,300
TOTAL INDUSTRIAL	274	570	NA	NA	NA
TOTAL PRIVATE/OTHER	383	326	NA	NA	NA
TOTAL, PPPL	112,360	117,615	115,727	116,611	104,300
GRAND TOTAL, CAMPUS & PPPL	\$306,546	\$318,391	\$330,934	\$337,897	\$342,649

* Shows Government funded subawards from industry & private organizations categorized by their prime source of funds.

** Awards from National Intelligence included with Other Government in previous years.

***To be consistent with Finance Office, PPPL is now counted as one award with DOE.

SECTION I

TABLE 2

5 YEAR HISTORY BY DIVISION

SPONSORED AWARD EXPENDITURES (\$1,000)

<u>Breakdown by Division*</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
Natural Sciences	115,877	126,924	137,393	149,130	158,982
Engineering & Applied Sciences	61,796	57,730	63,537	59,714	59,219
Humanities & Social Sciences	15,916	15,779	13,679	11,915	13,967
Non-Academic Departments	598	342	598	528	6,181
Sub-Total Campus	194,186	200,775	215,208	221,286	238,349
Plasma Physics Laboratory	<u>112,360</u>	<u>117,615</u>	<u>115,727</u>	<u>116,611</u>	<u>104,300</u>
GRAND TOTAL	\$306,546	\$318,391	\$330,934	\$337,897	\$342,649

NUMBER OF SPONSORED AWARDS

<u>Breakdown by Division*</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
Natural Sciences	762	788	825	847	906
Engineering & Applied Sciences	460	486	474	463	506
Humanities & Social Sciences	139	142	124	133	137
Non-Academic Departments	16	16	19	15	27
Sub-Total Campus	1,377	1,432	1,442	1,458	1,576
Plasma Physics Laboratory**	<u>20</u>	<u>16</u>	<u>1</u>	<u>1</u>	<u>1</u>
GRAND TOTAL	1,397	1,448	1,443	\$1,459	\$1,577

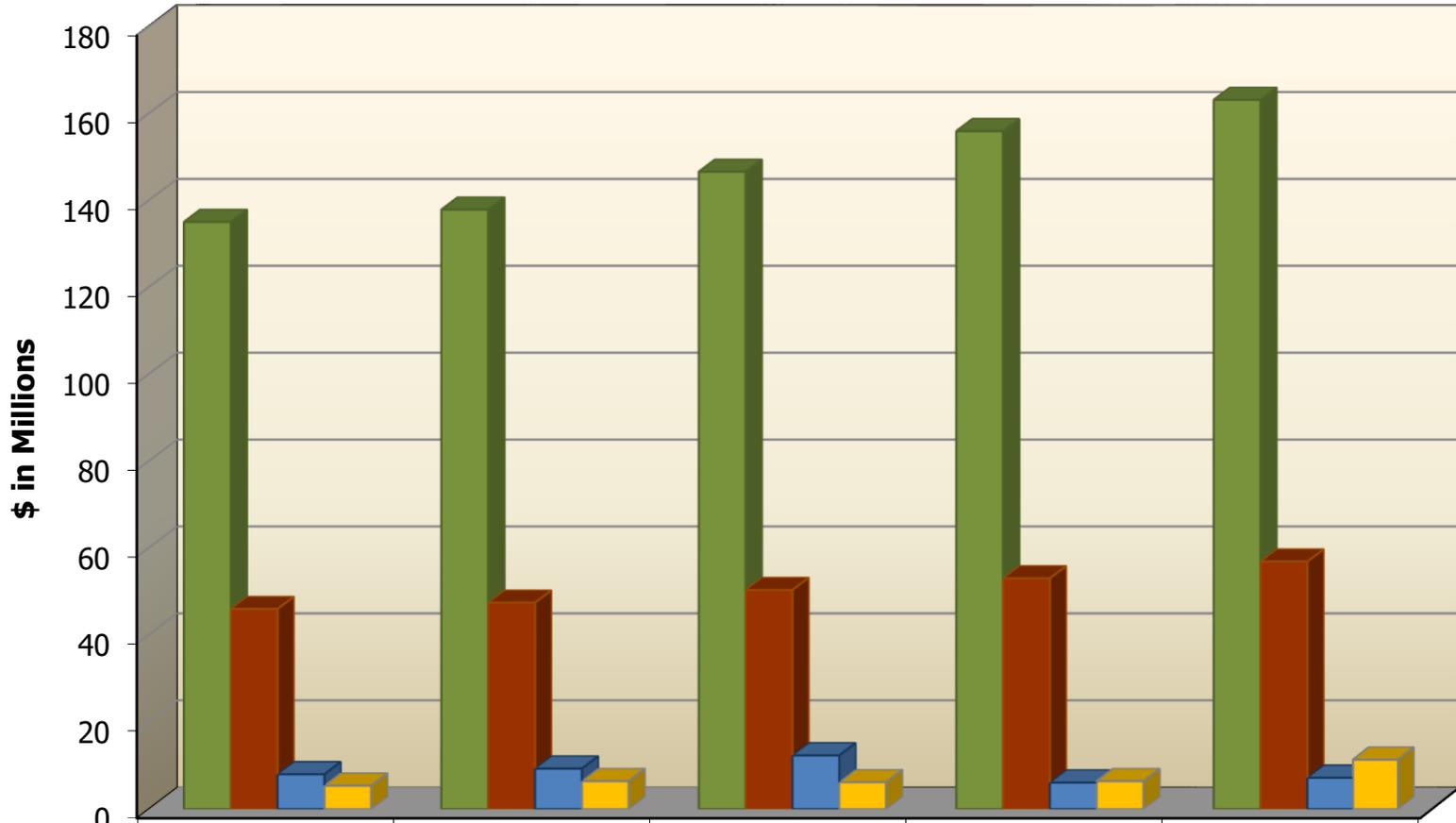
AVERAGE EXPENDITURES PER AWARD (\$1,000)

<u>Breakdown by Division*</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
Natural Sciences	152	161	167	176	175
Engineering & Applied Sciences	134	119	134	129	117
Humanities & Social Sciences	115	111	110	90	102
Non-Academic Departments	37	21	31	35	229
All	\$141	\$140	\$149	\$152	\$151

* In FY2016, Divisions changed to Dean of Faculty definitions.

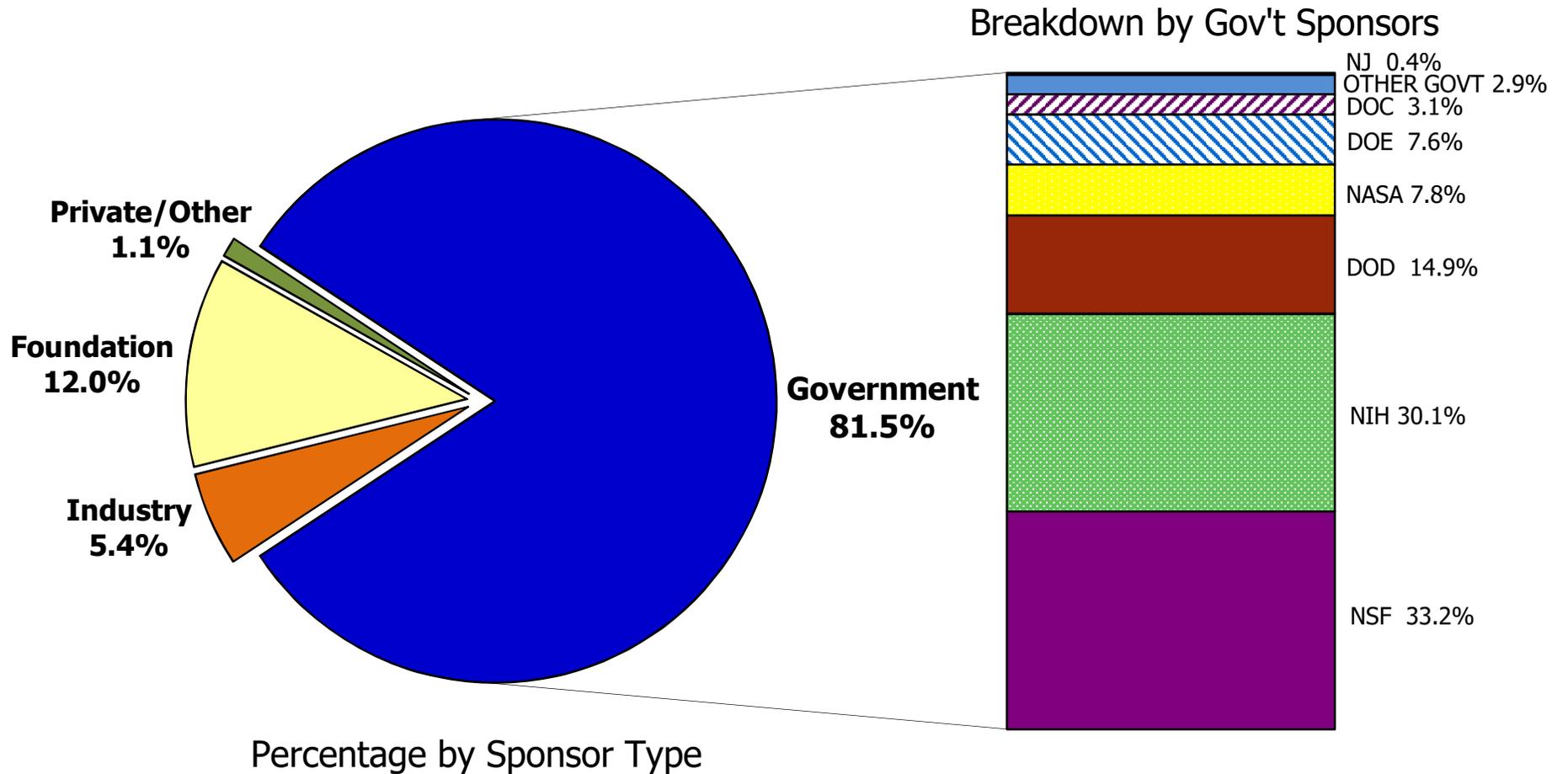
**To be consistent with Finance Office, PPPL is now counted as one award with DOE.

Chart 2
Breakdown of Expenditures
 (Excludes Plasma Physics Lab)



	2015	2016	2017	2018	2019
■ Direct Costs	134,967,536	137,796,889	146,525,454	155,878,341	163,069,407
■ Indirect Costs	45,887,586	47,334,327	50,269,478	52,950,261	56,802,188
■ Equipment/Facilities	7,969,349	9,254,144	12,282,328	6,053,852	7,167,643
■ Training Grants	5,361,360	6,390,044	6,130,252	6,403,919	11,310,112

Chart 3
Funding % By Prime* Sponsor - FY 2018-2019
 (Excludes PPPL)



*Shows Federally funded subawards from industry & private organizations categorized by their prime source of funds.

Chart 4
Comparison of Prime Government Sponsored Expenditures
 5 Year History
 (Excludes Plasma Physics Lab)

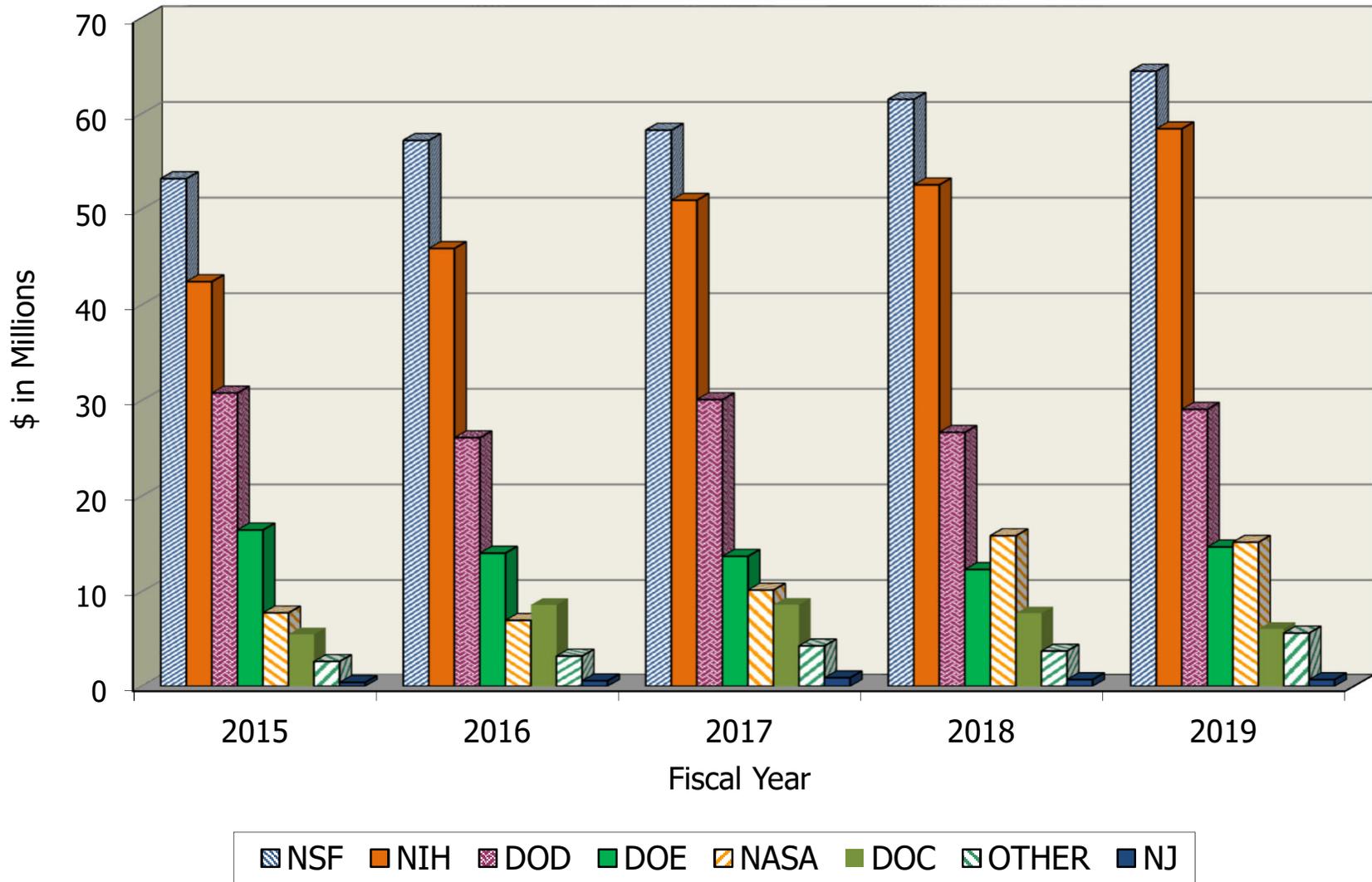


Chart 5
Comparison of Non-Government Sponsored Expenditures
 (with Funds moved to Prime Sponsor)
 (Excludes Plasma Physics Lab)

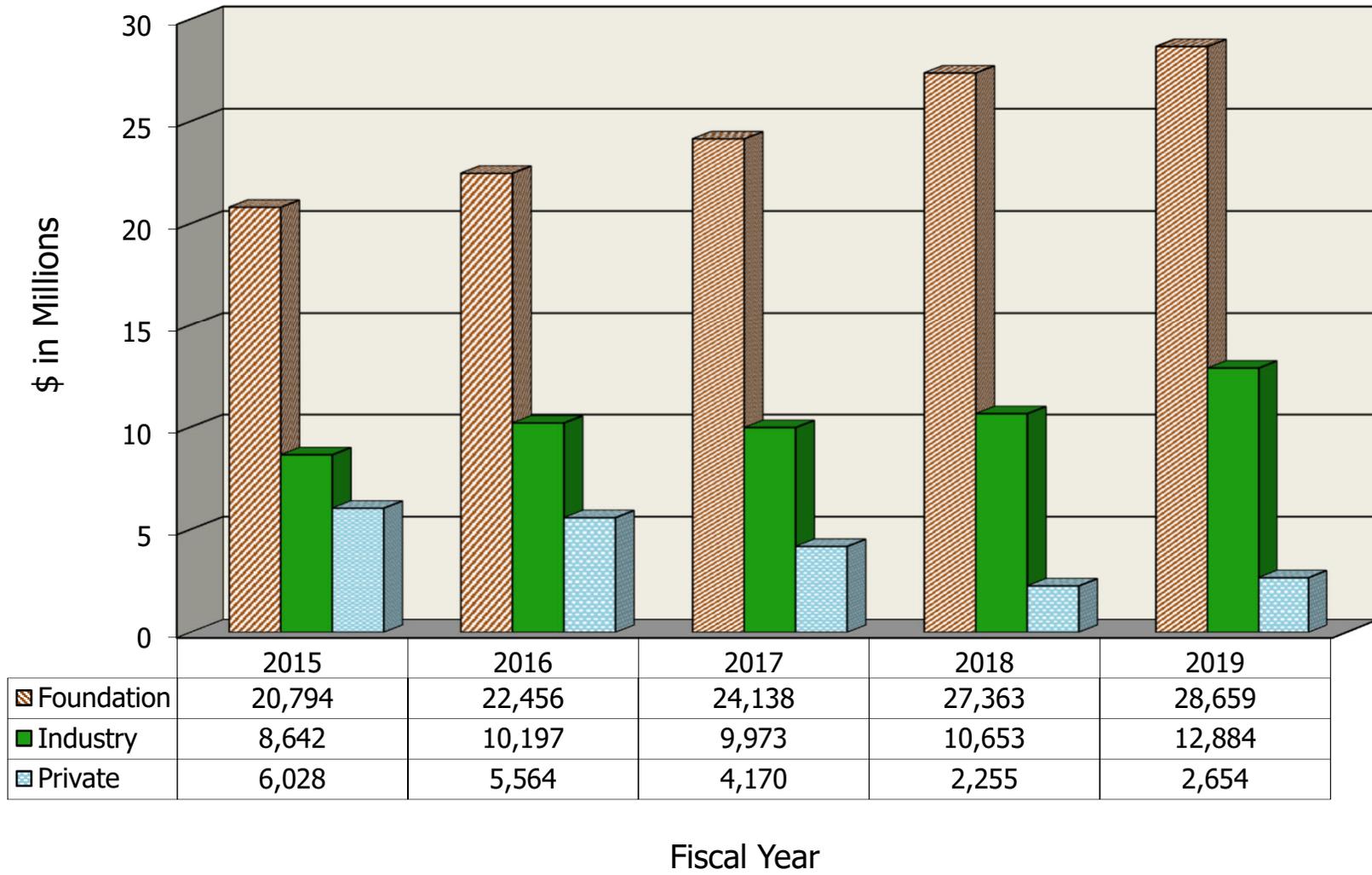
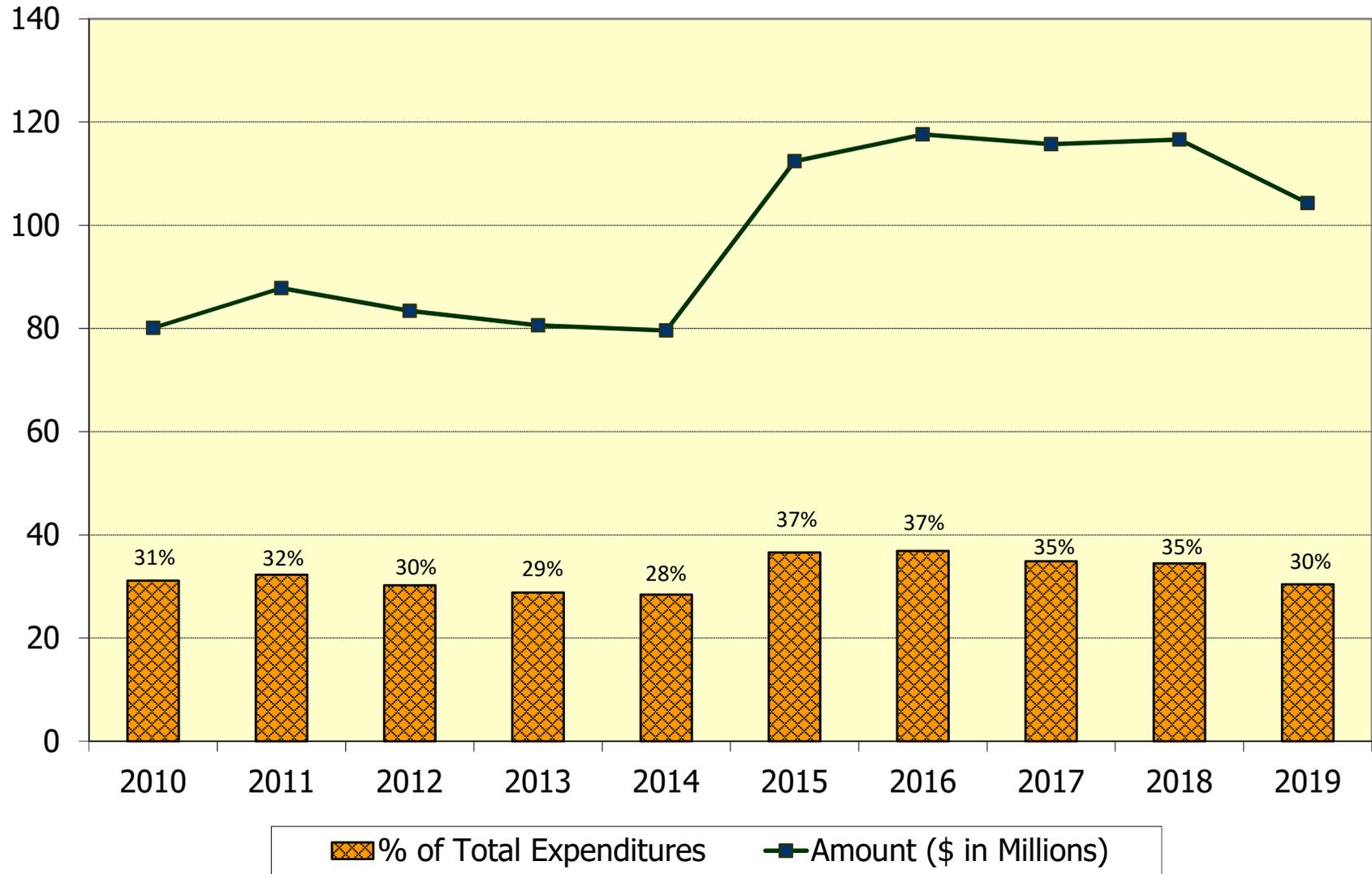


Chart 6

PLASMA PHYSICS LABORATORY

Amount and Percentage of Total Expenditures



SECTION II

THIS SECTION PRESENTS THE SPONSORED PROJECT ACTIVITIES OF THE YEAR
SUMMARIZED IN STATISTICAL DATA, CHARTS AND TABLES AS COMPILED BY THE
OFFICE OF RESEARCH AND PROJECT AND ADMINISTRATION

SECTION II
TABLE 3

SUMMARY OF SPONSORED EXPENDITURES BY DEPARTMENT OR PROGRAM
July 1, 2018 - June 30, 2019

DEPARTMENT/PROGRAM	# of Awards*	Direct Costs (Operating)	Student Aid/ Training Grants	Equipment & Facilities	Indirect Costs	Total
NATURAL SCIENCES	906	\$110,971,481	\$5,298,865	\$4,974,644	\$37,736,917	\$158,981,907
Applied & Computational Math (PACM)	17	1,235,184	206,103	(611)	428,154	1,868,830
Astrophysical Sciences	139	13,938,316	504,364	355,048	4,217,724	19,015,451
Atmospheric & Oceanic Sciences	24	5,577,302	10,589	0	1,724,311	7,312,203
Center for Statistics and Machine Learning	1	8,957	0	0	5,553	14,511
Chemistry	114	10,729,879	738,195	551,667	3,626,693	15,646,433
Ecology & Evolutionary Biology	48	2,083,278	148,843	177,723	746,098	3,155,941
Geosciences	56	2,170,115	86,858	107,087	1,020,775	3,384,835
Lewis-Siegler Institute	80	9,342,057	792,554	680,852	4,552,496	15,367,959
Mathematics	61	3,241,464	180,540	0	1,360,033	4,782,037
Molecular Biology	132	13,400,050	1,465,984	503,304	6,218,799	21,588,136
Physics	80	23,134,671	30,198	1,288,850	4,434,539	28,888,259
Princeton Environmental Institute (PEI)	20	7,028,776	40,031	(54)	1,036,834	8,105,587
Princeton Inst for Comput'l Sci & Eng (PICSciE)	4	1,598,021	0	0	300,284	1,898,305
Princeton Neuroscience Institute (PNI)	110	16,656,506	1,053,605	1,310,779	7,707,496	26,728,386
Psychology	20	826,907	41,000	0	357,128	1,225,034
ENGINEERING & APPLIED SCIENCES	506	39,532,204	383,194	2,185,391	17,118,417	59,219,206
Andlinger Center	37	3,501,443	2,150	369,944	1,795,941	5,669,478
Center for Information Technology Policy	3	239,589	0	0	51,515	291,104
Chemical & Biological Engineering	59	4,285,998	220,116	164,744	1,829,948	6,500,805
Civil & Environmental Engineering	40	2,148,178	40,150	53,911	1,047,000	3,289,239
Computer Science	101	7,716,127	300	195,073	3,094,944	11,006,444
Electrical Engineering	93	7,027,561	600	256,963	2,918,851	10,203,975
Mechanical & Aerospace Engineering	84	5,053,264	16,000	40,027	2,608,573	7,717,863
Operations Research & Financial Engin.	31	1,819,573	19,937	(146)	1,008,265	2,847,629
PRISM	58	7,740,472	83,941	1,104,876	2,763,379	11,692,668
HUMANITIES & SOCIAL SCIENCES	137	11,826,683	219,902	7,609	1,912,881	13,967,075
Anthropology	4	22,548	0	0	1,062	23,611
Architecture	1	509,712	0	0	0	509,712

TABLE 4 (CONT.)

DEPARTMENT/PROGRAM	# of Awards*	Direct Costs (Operating)	Student Aid/ Training Grants	Equipment & Facilities	Indirect Costs	Total
Art & Archaeology	2	7,831	10,000	0	0	17,831
Center for Study of Religion	3	66,520	0	0	837	67,357
Classics	1	388	0	0	0	388
East Asian Program	1	12,013	1,166	0	1,318	14,498
Economics	12	273,561	0	0	164,838	438,399
Gender and Sexuality Studies	2	14,508	0	0	0	14,508
History	3	18,528	0	0	0	18,528
History of Science	1	514	0	0	134	648
Jefferson Papers	2	201,083	0	0	17,802	218,885
Near Eastern Studies Program	1	22,800	0	0	1,800	24,600
Politics	17	1,394,059	57,575	495	101,763	1,553,891
Princeton Inst. for Int'l & Regional Studies (PIIRS)	1	131,576	63,961	0	0	195,537
Sociology	13	146,252	0	0	78,362	224,614
Woodrow Wilson School	50	5,921,019	87,200	4,604	603,405	6,616,228
Population Research (WWS)	22	3,083,746	0	2,510	941,557	4,027,814
Survey Research Center (WWS)	1	24	0	0	4	27
NON-ACADEMIC DEPARTMENTS	27	\$739,039	\$5,408,152	\$0	\$33,972	\$6,181,162
Art Museum	10	563,200	0	0	11,599	574,800
Graduate School Fellowships**	13	0	5,408,152	0	0	5,408,152
Health Services	2	87,796	0	0	22,373	110,169
Library	1	8,513	0	0	0	8,513
Office of Religious Life	1	79,530	0	0	0	79,530
SUBTOTAL MAIN CAMPUS	1,576	\$163,069,407	\$11,310,112	\$7,167,643	\$56,802,188	\$238,349,350
Plasma Physics Laboratory***	1	\$101,369,679	(\$2,650)	(\$269,721)	\$3,202,213	\$104,299,522
GRAND TOTAL	1,577	\$264,439,085	\$11,307,462	\$6,897,923	\$60,004,401	\$342,648,872

* Contracts and/or agreements that are divided into several ORPA Projects are considered one Award.

Awards that have multiple Projects in different Departments are counted in Lead Award Department but expenditures are added to Project Dept.

**Starting FY2019, GS Fellowships has been added

***To be consistent with Finance Office, PPPL is now counted as one award. Expenditures reported by PPPL are different due to their Fiscal Year.

Section II

Table 4

5 Year History By Department or Program

DIVISION DEPARTMENT/PROGRAM	FY2015		FY2016		FY2017		FY2018		FY2019	
	Awards*	Total								
NATURAL SCIENCES	762	\$115,876,923	788	\$126,923,730	825	\$137,392,581	847	\$149,129,933	906	\$158,981,907
Applied & Computational Math (PACM)	22	\$2,974,044	19	\$2,825,130	19	\$2,454,807	17	\$2,312,094	17	\$1,868,830
Astrophysical Sciences	77	\$7,158,553	87	\$8,955,163	109	\$12,727,340	115	\$18,925,360	139	\$19,015,451
Atmospheric & Oceanic Sciences	29	\$6,392,110	28	\$9,429,688	22	\$9,376,869	22	\$9,394,403	24	\$7,312,203
Center for Statistics and Machine Learning	0	\$0	1	\$65,113	1	\$69,006	1	\$76,726	1	\$14,511
Center for Theoretical Science	0	(\$399)	0	\$0	0	\$0	0	\$0	0	\$0
Chemistry	93	\$15,240,110	97	\$13,942,982	86	\$14,014,066	98	\$15,040,079	114	\$15,646,433
Ecology & Evolutionary Biology	46	\$3,022,875	48	\$3,553,044	50	\$3,188,206	46	\$3,089,610	48	\$3,155,941
Geosciences	63	\$4,167,195	57	\$4,100,129	48	\$3,484,261	56	\$4,419,765	56	\$3,384,835
Lewis-Siegler Institute	68	\$11,483,574	65	\$10,459,947	79	\$12,699,584	80	\$13,228,462	80	\$15,367,959
Mathematics	55	\$3,350,410	52	\$4,278,267	45	\$3,777,892	54	\$4,260,820	61	\$4,782,037
Molecular Biology	122	\$17,267,049	134	\$18,916,904	141	\$20,094,385	132	\$20,473,786	132	\$21,588,136
Physics	80	\$25,668,669	77	\$27,586,690	88	\$26,434,778	86	\$25,937,150	80	\$28,888,259
Princeton Environmental Institute (PEI)	19	\$6,367,422	18	\$7,405,892	17	\$7,372,925	18	\$7,328,597	20	\$8,105,587
Princeton Inst for Comput'l Sci & Eng (PICSciE)	3	\$233,425	5	\$464,041	5	\$415,071	2	\$95,401	4	\$1,898,305
Princeton Neuroscience Institute (PNI)	68	\$10,662,266	84	\$13,649,663	96	\$18,466,618	102	\$22,795,010	110	\$26,728,386
Psychology	17	\$1,889,620	16	\$1,291,077	19	\$2,816,773	18	\$1,752,669	20	\$1,225,034
ENGINEERING & APPLIED SCIENCES	460	\$61,795,680	486	\$57,730,498	474	\$63,537,425	463	\$59,714,070	506	\$59,219,206
Andlinger Center	12	\$2,320,848	20	\$2,183,622	26	\$3,453,752	28	\$4,394,373	37	\$5,669,478
Center for Information Technology Policy	1	\$126,913	0	\$0	1	\$5,000	2	\$182,521	3	\$291,104
Chemical & Biological Engineering	72	\$7,138,752	70	\$7,275,308	74	\$8,122,929	61	\$6,608,773	59	\$6,500,805
Civil & Environmental Engineering	78	\$4,676,167	79	\$6,058,725	62	\$5,638,899	50	\$4,394,808	40	\$3,289,239
Computer Science	67	\$7,444,481	71	\$9,081,399	67	\$10,053,934	80	\$10,081,997	101	\$11,006,444
Electrical Engineering	68	\$8,267,226	81	\$8,194,279	83	\$9,439,139	81	\$9,185,070	93	\$10,203,975
Mechanical & Aerospace Engineering	76	\$10,758,250	78	\$9,254,314	80	\$8,169,218	77	\$8,439,346	84	\$7,717,863
Operations Research & Financial Engin.	28	\$2,949,518	29	\$2,987,218	29	\$3,807,877	31	\$3,044,602	31	\$2,847,629
PRISM	58	\$18,113,526	58	\$12,695,633	52	\$14,846,676	53	\$13,382,582	58	\$11,692,668
HUMANITIES & SOCIAL SCIENCES	139	\$15,915,574	142	\$15,779,203	124	\$13,679,321	133	\$11,914,865	137	\$13,967,075
African-American Studies	1	\$950	0	\$0	0	\$0	0	\$0	0	\$0
Anthropology	1	\$2,351	2	\$14,248	2	\$19,670	2	\$24,093	4	\$23,611
Architecture	1	\$571,485	1	\$731,948	1	\$543,404	3	\$463,791	1	\$509,712
Art & Archaeology	0	\$741	0	\$0	0	\$0	1	\$50,000	2	\$17,831
Center for Study of Religion	2	\$141,485	2	\$290,081	3	\$282,928	2	\$254,564	3	\$67,357
Classics	1	\$234,056	1	\$49,500	0	(\$2)	1	\$4,873	1	\$388
Comparative Literature	1	\$4,378	1	\$9,694	0	(\$22)	0	\$0	0	\$0
East Asian Studies	1	\$259,739	1	\$225,318	1	\$118,126	1	\$36,451	0	\$0
East Asian Program	1	\$19,290	1	\$16,560	1	\$18,191	1	\$17,864	1	\$14,498

TABLE 4 (CONT.)

DIVISION DEPARTMENT/PROGRAM	FY2015		FY2016		FY2017		FY2018		FY2019	
	Awards*	Total								
Economics	15	\$644,501	18	\$737,695	16	\$571,952	11	\$479,643	12	\$438,399
English	1	\$37,764	2	\$25,628	1	\$207,154	1	\$26,617	0	\$0
French & Italian	1	\$2,226	0	\$0	0	\$0	0	\$0	0	\$0
Gender and Sexuality Studies	1	\$37,335	1	\$44,351	1	(\$13,309)	2	\$118,547	2	\$14,508
History	4	\$89,152	6	\$179,529	6	\$281,913	5	\$167,472	3	\$18,528
History of Science	1	\$17,928	0	\$0	1	\$5,398	1	\$6,107	1	\$648
Industrial Relations Section	0	(\$210)	0	\$210	1	\$78,508	0	\$0	0	\$0
Jefferson Papers	1	\$121,588	0	\$0	0	\$0	0	\$0	2	\$218,885
Peter B. Lewis Center - Arts	1	\$196,361	1	\$26,690	0	\$333	0	-\$285	0	\$0
Music	1	\$1,698	0	\$0	0	\$0	1	\$20,500	0	\$0
Near Eastern Studies	2	\$43,866	1	\$8,259	1	\$140,835	2	\$69,975	0	\$0
Near Eastern Studies Program	1	\$150,612	1	\$175,408	1	\$145,823	1	\$303,557	1	\$24,600
Philosophy	4	\$280,798	3	\$105,267	3	\$134,222	2	\$75,759	0	\$0
Politics	17	\$711,841	16	\$628,607	12	\$379,565	13	\$623,668	17	\$1,553,891
Princeton Inst. for Int'l & Regional Studies (PIIRS)	1	\$44,327	2	\$170,764	2	\$18,211	2	\$15,450	1	\$195,537
Sociology	8	\$225,121	9	\$300,826	5	\$355,673	9	\$247,245	13	\$224,614
Woodrow Wilson School	47	\$6,977,868	50	\$6,641,719	48	\$6,492,407	53	\$6,075,493	50	\$6,616,228
Population Research (WWS)	23	\$4,881,479	22	\$5,260,592	16	\$3,798,535	18	\$2,688,018	22	\$4,027,814
Survey Research Center (WWS)	1	\$216,842	1	\$136,309	2	\$99,805	1	\$145,464	1	\$27
NON-ACADEMIC DEPARTMENTS	16	\$597,654	16	\$341,973	19	\$598,185	15	\$527,504	27	\$6,181,162
Art Museum	3	\$153,183	5	\$106,567	8	\$246,657	7	\$355,905	10	\$574,800
Dean of the College (CBLI)	1	\$1,406	0	(\$3)	0	\$0	0	\$0	0	\$0
Dean of the College (McGraw Center)	1	34,204	1	(\$257,446)	0	\$0	0	\$0	0	\$0
Graduate School Fellowships**	NA	NA	NA	NA	NA	NA	NA	NA	13	\$5,408,152
Graduate School	1	\$36,259	1	\$3,476	1	\$28,015	1	\$7,064	0	\$0
Health Services	3	\$232,713	3	\$229,785	4	\$236,411	2	\$85,174	2	\$110,169
Library	2	\$87,422	2	\$155,368	2	\$41,418	2	\$28,909	1	\$8,513
Pace Center	4	\$26,167	0	(\$7)	0	\$0	0	\$92	0	\$0
Office of Religious Life	0	\$0	1	\$3,240	0	\$0	0	\$0	1	\$79,530
Teacher Preparation	1	\$26,299	3	\$100,992	3	\$42,693	1	\$17,349	0	\$0
University Center for Human Values	0	\$0	0	\$0	1	\$2,990	2	\$33,013	0	\$0
SUBTOTAL MAIN CAMPUS	1,377	\$194,185,831	1,432	\$200,775,404	1,442	\$215,207,512	1,458	\$221,286,373	1,576	\$238,349,350
Plasma Physics Laboratory***	20	\$112,360,467	16	\$117,615,285	1	\$115,726,963	1	\$116,610,657	1	\$104,299,522
GRAND TOTAL	1,397	\$306,546,298	1,448	\$318,390,689	1,443	\$330,934,475	1,459	\$337,897,030	1,577	\$342,648,872

* Before FY2019, awards counted if expenditures were \$1,000 or more. Contracts and/or agreements that are divided into several ORPA Projects are considered one Award.

Awards that have multiple Projects in different Departments are counted in Lead Award Department but expenditures are added to Project Dept.

** Starting FY2019, GS Fellowships been added.

***Starting FY2017, to be consistent with Finance Office, PPPL is counted as one award. Expenditures reported by PPPL are different due to their Fiscal Year.

SECTION II

TABLE 5

SUMMARY OF SPONSORED EXPENDITURES BY PRIME* SPONSOR

July 1, 2018 - June 30, 2019

GOVERNMENT AGENCY OR DEPARTMENT	# of Awards**	Direct Costs (Operating)	Student Aid/ Training Grants	Equipment & Facilities	Indirect Costs	Total
NSF	451	44,094,393	4,922,199	1,455,372	13,970,347	64,442,310
NIH	247	35,458,647	2,982,139	1,808,739	18,157,930	58,407,455
NASA	117	11,348,670	524,450	44,860	3,247,058	15,165,038
DOE	108	9,577,215	194,598	288,413	4,615,630	14,675,855
ARMY	37	5,250,824	28,578	665,803	2,039,144	7,984,349
DARPA	34	5,311,267	0	343,118	2,277,579	7,931,965
DOC (NOAA & NIST)	13	4,655,532	3,054	0	1,404,646	6,063,233
NAVY	39	3,733,238	49,450	73,811	1,895,041	5,751,541
AF	38	3,121,293	102,983	121,726	1,437,191	4,783,193
NI (IARPA)	5	2,156,775	0	93,084	1,101,570	3,351,428
OTHER DOD	12	670,535	810,442	62,120	367,663	1,910,760
STATE DEPT	2	939,159	0	495	63,078	1,002,732
STATE OF NEW JERSEY	19	482,166	180,833	9,000	32,426	704,425
DTRA	2	553,947	0	0	124,470	678,418
IMLS	3	252,268	0	0	10,348	262,616
DoED	3	22,800	78,024	0	1,800	102,623
NEH	1	68,471	0	0	17,802	86,273
DOT (inc FAA)	2	27,587	0	0	17,104	44,691
OTHER GOVT.***	9	718,059	0	0	85,648	803,707
TOTAL GOVERNMENT	1,142	\$128,442,847	\$9,876,749	\$4,966,541	\$50,866,475	\$194,152,612
FOUNDATION	286	\$23,437,543	\$1,078,399	\$1,778,048	\$2,364,709	\$28,658,700
INDUSTRIAL	90	\$9,174,411	\$76,095	\$348,541	\$3,284,714	\$12,883,760
PRIVATE/OTHER	58	\$2,014,606	\$278,869	74,514	\$286,289	\$2,654,278
TOTAL MAIN CAMPUS	1,576	\$163,069,407	\$11,310,112	\$7,167,643	\$56,802,188	\$238,349,350
PPPL DOE PRIME CONTRACT	1	\$101,369,679	(\$2,650)	(\$269,721)	\$3,202,213	\$104,299,522
TOTAL CAMPUS / PPPL	1,577	\$264,439,085	\$11,307,462	\$6,897,923	\$60,004,401	\$342,648,872

* This table categorizes federally and NJ state funded subawards from industry and private organizations by their prime source of funds.

**Contracts/agreements that are divided into several ORPA Projects are considered one Award.

***Inc: BBG, CDC, DHS, FDA, NEA, NHPRC, OPM, and USDA

SECTION II

TABLE 6 - Section 1

MASTER SUMMARY OF SPONSORED RESEARCH - BY PRIME SPONSOR (Expenditures - \$ in Thousands)
BY DEPARTMENT AND PRIME SPONSOR (July 1, 2018 - June 30, 2019)

DEPARTMENT / PROGRAM	No. of Awards*	GRAND TOTAL EXPENDITURES	NIH		NSF		DOE		DoD AIR FORCE	
NATURAL SCIENCES	906	158,982	215	52,005	221	41,080	62	9,169	10	1,789
Applied & Computational Math	17	1,869	1	82	9	774			1	99
Astrophysical Sciences	139	19,015			24	4,765	24	1,957	3	839
Atmospheric & Oceanic Sciences	24	7,312			11	628	2	274		
Center for Statistics and Machine Learning	1	15								
Chemistry	114	15,646	33	5,332	17	1,752	14	2,451	2	160
Ecology & Evolutionary Biology	48	3,156	4	659	19	1,091				
Geosciences	56	3,385			34	2,193	4	242		
Lewis-Siegler Institute	80	15,368	43	11,499	7	852	3	1,064		
Mathematics	61	4,782			45	3,320			2	375
Molecular Biology	132	21,588	69	16,668	3	350				
Physics	80	28,888	2	54	27	17,612	14	3,061	1	119
Princeton Environmental Institute	20	8,106			6	4,808	1	121		
Princeton Inst for Computat'l Sci & Engin (PICSciE)	4	1,898			4	1,898				
Princeton Neuroscience Institute (PNI)	110	26,728	58	17,209	9	585			1	197
Psychology	20	1,225	5	502	6	453				
ENGINEERING & APPLIED SCIENCES	506	59,219	25	3,683	190	18,119	43	5,337	26	2,892
Andlinger Ctr for Energy & Environment	37	5,669			9	800	13	1,649	2	440
Center for Information Technology Policy	3	291							1	14
Chemical & Biological Engineering	59	6,501	12	2,587	10	853	5	558	2	120
Civil & Environ. Engineering	40	3,289			14	1,028	7	784		
Computer Science	101	11,006	9	783	58	5,031	2	46	1	35
Electrical Engineering	93	10,204			41	2,796	4	674	6	896
Mechanical & Aerospace Engineering	84	7,718	1	42	21	1,739	5	725	10	839
Oper. Res. & Financial Engineering	31	2,848	2	190	16	990			*	8
PRISM	58	11,693	1	81	21	4,883	7	900	4	540
HUMANITIES & SOCIAL SCIENCES	137	13,967	7	2,720	36	1,097	0	0	0	0
Anthropology	4	24			4	24				
Architecture School	1	510								
Art & Archaeology	2	18								
Center for the Study of Religion	3	67								
Classics	1	0								
East Asian Studies Program	1	14								
Economics	12	438			10	431				
Gender and Sexuality Studies	2	15								
History	3	19								
History of Science	1	1			1	1				
Jefferson Papers	2	219								
Near Eastern Studies Program	1	25								
Politics	17	1,554			7	181				
Princeton Inst. for Int'l. & Reg'l Studies (PIIRS)	1	196								
Sociology	13	225			11	217				
Woodrow Wilson School	50	6,616			2	207				
Population Research (WWS)	22	4,028	7	2,720	1	38				
Survey Research Center (WWS)	1	0								
NON-ACADEMIC	27	6,181	0	0	1	4,146	3	170	2	103
Art Museum	10	575								
Graduate School Fellowships	13	5,408			1	4,146	3	170	2	103
Health Services	2	110								
Library	1	9								
Office of Religious Life	1	80								
TOTAL, MAIN CAMPUS	1576	238,350	247	58,407	448	64,442	108	14,676	38	4,783
Plasma Physics Laboratory	1	104,300					1	104,300		
GRAND TOTAL	1577	342,649	247	58,407	448	64,442	109	118,975	38	4,783

*Count of awards added to Award Dept. while expenditures added to Project Dept.

NOTES:

1. Figures are rounded out to nearest dollar
2. Figures in () represent negative quantities, usually the result of adjustments to closed accounts.
3. Other Govt: BBG, CDC, DHS, FDA, NEA, NHPRC, OPM, and USDA
4. GS Fellowships added to Non-Academic Departments

SECTION II

TABLE 6 - Section 2

MASTER SUMMARY OF SPONSORED RESEARCH - BY PRIME SPONSOR (Expenditures - \$ in Thousands)
BY DEPARTMENT AND PRIME SPONSOR (July 1, 2018 - June 30, 2019)

DEPARTMENT / PROGRAM	DoD NAVY		NASA		DoD ARMY		STATE OF NJ		DOC (NIST/NOAA)		DoD DARPA	
NATURAL SCIENCES	9	1,836	94	12,938	10	3,650	14	633	6	5,775	6	1,120
Applied & Computational Math	1	183			1	227						
Astrophysical Sciences			74	10,305								
Atmospheric & Oceanic Sciences			4	421					5	5,752		
Center for Statistics and Machine Learning												
Chemistry	1	294	1	1	2	765			(0)			
Ecology & Evolutionary Biology											2	350
Geosciences	1	203	6	190								
Lewis-Siegler Institute							2	91			1	130
Mathematics												
Molecular Biology					1	626	9	365				
Physics	2	361	5	1,658	3	1,327					3	639
Princeton Environmental Institute			4	363					1	23		
Princeton Inst for Computat'l Sci & Engin (PICSciE)												
Princeton Neuroscience Institute (PNI)	4	796			3	705	2	128				
Psychology							1	48				
ENGINEERING & APPLIED SCIENCES	27	3,666	22	2,224	25	4,200	3	42	7	289	28	6,812
Andlinger Ctr for Energy & Environment	3	548										
Center for Information Technology Policy												
Chemical & Biological Engineering					1	129	3	42	1	6	2	345
Civil & Environ. Engineering			9	1,116					6	282		
Computer Science	2	136			1	205					5	2,334
Electrical Engineering	4	372	1	51	7	637					14	3,262
Mechanical & Aerospace Engineering	14	1,806	12	1,057	8	644					2	157
Oper. Res. & Financial Engineering	1	163			2	289					1	158
PRISM	3	642			6	2,295					4	555
HUMANITIES & SOCIAL SCIENCES	5	200	1	3	0	0	0	0	0	0	0	0
Anthropology												
Architecture School												
Art & Archaeology												
Center for the Study of Religion												
Classics												
East Asian Studies Program												
Economics												
Gender and Sexuality Studies												
History												
History of Science												
Jefferson Papers												
Near Eastern Studies Program												
Politics												
Princeton Inst. for Int'l. & Reg'l Studies (PIIRS)												
Sociology			1	3								
Woodrow Wilson School	5	200										
Population Research (WWS)												
Survey Research Center (WWS)												
NON-ACADEMIC	1	49	0	0	2	134	2	30	0	0	0	0
Art Museum							2	30				
Graduate School Fellowships	1	49			1	26						
Health Services					1	108						
Library												
Office of Religious Life												
TOTAL, MAIN CAMPUS	42	5,752	117	15,165	37	7,984	19	704	13	6,063	34	7,932
Plasma Physics Laboratory												
GRAND TOTAL	42	5,752	117	15,165	37	7,984	19	704	13	6,063	34	7,932

*Count of awards added to Award Dept. while expenditure

NOTES:

1. Figures are rounded out to nearest dollar
2. Figures in () represent negative quantities, usually the result of adjustments to closed accounts.
3. Other Govt: BBG, CDC, DHS, FDA, NEA, NHPRC, OPM, and USDA
4. GS Fellowships added to Non-Academic Departments

SECTION II

TABLE 6 - Section 3

MASTER SUMMARY OF SPONSORED RESEARCH - BY PRIME SPONSOR (Expenditures - \$ in Thousands)
BY DEPARTMENT AND PRIME SPONSOR (July 1, 2018 - June 30, 2019)

DEPARTMENT / PROGRAM	DTRA/DSCA/ Other DoD		DoED		IARPA		STATE DEPT		OTHER GOVT		GOVERNMENT	
NATURAL SCIENCES	8	1,007	0	0	4	3,196	0	0	3	167	662	134,364
Applied & Computational Math											13	1,364
Astrophysical Sciences											125	17,866
Atmospheric & Oceanic Sciences											22	7,075
Center for Statistics and Machine Learning											0	0
Chemistry											70	10,754
Ecology & Evolutionary Biology									2	94	27	2,194
Geosciences	1	51									46	2,879
Lewis-Siegler Institute					1	123			1	73	58	13,832
Mathematics											47	3,694
Molecular Biology	4	500									86	18,510
Physics	2	455									59	25,287
Princeton Environmental Institute	1	(0)									13	5,314
Princeton Inst for Computat'l Sci & Engin (PICSciE)											4	1,898
Princeton Neuroscience Institute (PNI)					1	3,022					78	22,642
Psychology					2	51					14	1,054
ENGINEERING & APPLIED SCIENCES	4	792	0	0	1	155	1	32	6	500	408	48,743
Andlinger Ctr for Energy & Environment											27	3,436
Center for Information Technology Policy											1	14
Chemical & Biological Engineering									1	125	37	4,766
Civil & Environ. Engineering	1	45							2	32	39	3,288
Computer Science					1	155					79	8,726
Electrical Engineering	1	100							1	256	79	9,044
Mechanical & Aerospace Engineering							1	32	2	86	76	7,128
Oper. Res. & Financial Engineering	1	20									23	1,819
PRISM	1	627									47	10,523
HUMANITIES & SOCIAL SCIENCES	0	0	1	25	0	0	1	970	2	219	53	5,233
Anthropology											4	24
Architecture School											0	0
Art & Archaeology											0	0
Center for the Study of Religion											0	0
Classics											0	0
East Asian Studies Program											0	0
Economics											10	431
Gender and Sexuality Studies											0	0
History											0	0
History of Science											1	1
Jefferson Papers										2	219	2
Near Eastern Studies Program			1	25							1	25
Politics							1	970			8	1,151
Princeton Inst. for Int'l. & Reg'l Studies (PIIRS)											0	0
Sociology											12	220
Woodrow Wilson School											7	406
Population Research (WWS)											8	2,757
Survey Research Center (WWS)											0	0
NON-ACADEMIC	2	791	2	78	0	0	0	0	4	312	19	5,813
Art Museum									4	312	6	342
Graduate School Fellowships	2	791	2	78							12	5,363
Health Services											1	108
Library											0	0
Office of Religious Life											0	0
TOTAL, MAIN CAMPUS	14	2,589	3	103	5	3,351	2	1,003	15	1,197	1142	194,153
Plasma Physics Laboratory											1	104,300
GRAND TOTAL	14	2,589	3	103	5	3,351	2	1,003	15	1,197	1143	298,452

*Count of awards added to Award Dept. while expenditure

NOTES:

1. Figures are rounded out to nearest dollar
2. Figures in () represent negative quantities, usually the result of adjustments to closed accounts.
3. Other Govt: BBG, CDC, DHS, FDA, NEA, NHPRC, OPM, and USDA
4. GS Fellowships added to Non-Academic Departments

SECTION II

TABLE 6 - Section 4

MASTER SUMMARY OF SPONSORED RESEARCH - BY PRIME SPONSOR (Expenditures - \$ in Thousands)
BY DEPARTMENT AND PRIME SPONSOR (July 1, 2018 - June 30, 2019)

DEPARTMENT / PROGRAM	FOUNDATIONS		INDUSTRY		PRIVATE/ OTHER	
	175	16,701	41	6,875	28	1,043
NATURAL SCIENCES						
Applied & Computational Math	3	495			1	10
Astrophysical Sciences	9	853	2	15	3	281
Atmospheric & Oceanic Sciences	1	192			1	45
Center for Statistics and Machine Learning			1	15		
Chemistry	21	2,088	22	2,803	1	1
Ecology & Evolutionary Biology	16	867			5	95
Geosciences	6	231	2	141	2	134
Lewis-Siegler Institute	16	1,008	1	211	5	317
Mathematics	13	1,072			1	16
Molecular Biology	34	2,559	10	511	2	9
Physics	19	3,561			2	41
Princeton Environmental Institute	4	295	2	2,478	1	18
Princeton Inst for Computat'l Sci & Engin (PICSciE)						
Princeton Neuroscience Institute (PNI)	29	3,314	1	701	2	72
Psychology	4	168			2	3
ENGINEERING & APPLIED SCIENCES	29	3,042	48	6,008	21	1,426
Andlinger Ctr for Energy & Environment			8	2,147	2	86
Center for Information Technology Policy	2	277				
Chemical & Biological Engineering	10	918	7	517	5	300
Civil & Environ. Engineering					1	2
Computer Science	10	972	6	519	6	790
Electrical Engineering			10	1,018	4	143
Mechanical & Aerospace Engineering	3	116	3	382	2	93
Oper. Res. & Financial Engineering	2	52	5	965	1	13
PRISM	2	708	9	462		
HUMANITIES & SOCIAL SCIENCES	74	8,548	1	0	9	186
Anthropology						
Architecture School	1	510				
Art & Archaeology	2	18				
Center for the Study of Religion	2	58			1	9
Classics	1	0				
East Asian Studies Program	1	14				
Economics	1	7	1	0		
Gender and Sexuality Studies	2	15				
History	3	19				
History of Science						
Jefferson Papers						
Near Eastern Studies Program						
Politics	7	356			2	47
Princeton Inst. for Int'l. & Reg'l Studies (PIIRS)	1	196				
Sociology	1	5				
Woodrow Wilson School	37	6,080			6	130
Population Research (WWS)	14	1,271				
Survey Research Center (WWS)	1	0				
NON-ACADEMIC	8	368	0	0	0	0
Art Museum	4	233				
Graduate School Fellowships	1	45				
Health Services	1	2				
Library	1	9				
Office of Religious Life	1	80				
TOTAL, MAIN CAMPUS	286	28,659	90	12,884	58	2,654
Plasma Physics Laboratory						
GRAND TOTAL	286	28,659	90	12,884	58	2,654

*Count of awards added to Award Dept. while expenditure

NOTES:

1. Figures are rounded out to nearest dollar
2. Figures in () represent negative quantities, usually the result of adjustments to closed accounts.
3. Other Govt: BBG, CDC, DHS, FDA, NEA, NHPRC, OPM, and USDA
4. GS Fellowships added to Non-Academic Departments

SECTION II
TABLE 7
FY2019 SPONSOR INVENTORY

Sponsor/Agency	Expenditures
Abbott Point of Care Inc.	\$42,681
AbbVie Inc.	\$14,855
Agouron Institute	\$21,480
Air Force Office of Scientific Research	\$4,375,144
Air Force Research Institute	\$51,250
Air Force Research Laboratory (Rome)	\$296,707
Air Force Research Laboratory (WPAFB)	\$60,092
Air Liquide	\$189,602
Albert Browne Limited	\$119,153
Alexander von Humboldt Foundation	\$164,735
Alfred P. Sloan Foundation	\$483,925
alpha-En Corporation	\$39,066
American Cancer Society, Inc. (ACS)	\$173,851
American Chemical Society	\$72,711
American Council of Learned Societies	\$7,831
American Diabetes Association	\$196,747
American Heart Association	\$53,642
American Political Science Association	\$19,758
American Tower Corporation	\$330
Amgen, Inc.	\$58,724
Annie E. Casey Foundation	\$31,851
Apple Inc.	\$441
Ara Parseghian Medical Research Fund	\$100,000
Army Medical Research & Materiel Command	\$108,422
Army Medical Rsrch Acquistion Activity	\$626,030
Army Research Office	\$7,223,908
Arnold and Mabel Beckman Foundation	\$18,053
Astrophysical Research Consortium (ARC)	\$9,510
Australian Research Council	\$18,431
Bernard van Leer Foundation	\$58,997
Bert L & Natalie K Vallee Fdn, Inc.	\$99,573
Bill & Melinda Gates Foundation	\$1,235,721
BP International Limited	\$2,478,085
Brain and Behavior Research Foundation	\$91,144
Breast Cancer Research Foundation	\$214,455
Bristol-Myers Squibb Company	\$462,937
Broadcasting Board of Governors	\$255,948
Bromine Compounds Ltd (BCL)	\$26,949

TABLE 7 (Cont.)

Sponsor/Agency	Expenditures
Canadian Institute for Advanced Research	\$43,842
Carnegie Corporation of New York	\$543,783
Celgene Corporation	\$220,424
Centers for Disease Control & Prevention	\$58,852
Chan Zuckerberg Initiative	\$372,045
Chanel S.A.	\$53,916
Charles H. Revson Foundation	\$154,441
CHDI Foundation, Inc.	\$59,726
Chevron Phillips Chemical Company	\$156,498
Clark County Department of Air Quality	\$44,956
Council of Ivy League Presidents	\$1,748
Damon Runyon Cancer Research Foundation	\$93,540
Defense Advanced Research Projects Agency	\$7,931,965
Defense Security Cooperation Agency	\$29,330
Defense Threat Reduction Agency	\$678,418
Department for International Development	\$31,860
Department of Defense	\$1,761,140
DOE - Boston Regional Office	\$101,601
DOE - Chicago	\$4,932,237
DOE - Germantown	\$709,851
DOE - Idaho National Laboratory	\$48,021
DOE - Morgantown	\$115,273
DOE - National Nuclear Security Admin	\$1,489,548
DOE - National Renewable Energy Lab	\$76,623
DOE - Oak Ridge	\$0
DOE - Pittsburgh NETL	\$231,342
DOE - Washington	\$6,493,849
DOE- Golden Field Office	\$121,474
DOE Office of Fossil Energy	\$313,712
EDHEC-Risk Institute	\$12,960
Edward Mallinckrodt Jr. Foundation	\$22,268
Edward N & Della L Thome Memorial Fdn	\$0
Eli Lilly and Company	\$98,268
Esther A. & Joseph Klingenstein Fund	\$0
Europe Power Survey Limited	\$112,412
ExxonMobil Global Services Company	\$91
ExxonMobil Research and Engineering Co.	\$1,675,464
Facebook Technologies, LLC	\$146,788
Facebook, Inc.	-\$71,164
Federal Aviation Agency (DOT)	\$44,297
Fidelity Charitable Gift Fund	\$17,597

TABLE 7 (Cont.)

Sponsor/Agency	Expenditures
Fidelity Investments	\$250
Firmenich SA	\$34,457
Focal-JMLab	\$184,076
Foundation for Child Development	\$20,555
Foundation for Prader-Willi Research	\$55,204
Freeman Foundation	\$14,498
Futures Action Network, LLC	\$15,076
Genentech, Inc.	\$62,030
General Dynamics Corporation	\$124,950
General Fusion Inc.	\$0
Gilead Sciences, Inc.	\$29,480
GlaxoSmithKline - US	\$3,750
Glenn Foundation for Medical Research	\$137,121
Gordon and Betty Moore Foundation	\$3,821,230
GPB Scientific, LLC	\$37,999
Heising-Simons Foundation	\$161,271
Helen Hay Whitney Foundation	\$119,748
HKF Technology	\$15,000
Howard Hughes Medical Institute	\$988,301
Human Frontier Science Prog Org (HFSP)	\$324,955
IBM Ctr for The Business of Government	\$0
Idaho National Eng and Env Labor	\$42,324
Int Human Frontier Sci Prog Org (IHFSPO)	\$51,457
Intel Corporation	\$700,540
Intell. Advanced Rsrch Projects Activity	\$3,351,428
International Balzan Foundation	\$13,505
Intl Business Machines Corp. (IBM)	\$14,850
Intl Fdn for Res in Experimental Econ	\$7,443
IP Group Inc.	\$91,218
James S. McDonnell Foundation	\$278,953
Jane Coffin Childs Mem. Fund/Med. Resr.	\$113,283
Janssen Research & Development, LLC	\$227,013
Jnana Therapeutics	\$112,124
Johnson & Johnson	\$71,237
Kavli Institute for Physics & Mathematics	\$271,287
Keck Foundation (The W. M.)	\$287,510
King Abdullah Univ of Science and Tech	\$463,991
Life Sciences Research Foundation	\$127,929
Lockheed Martin Corporation	\$19,440
London Sch of Economics	\$16,799
L'Oreal USA	\$131,675

TABLE 7 (Cont.)

Sponsor/Agency	Expenditures
Lung Biotechnology PBC	\$92,848
March of Dimes- Birth Defects Foundation	\$14,184
Masason Foundation	\$68,693
McKnight Endowment Fund for Neuroscience	\$453
Mercedes-Benz R&D of North America, Inc.	\$22,110
Merck & Co., Inc.	\$1,473,847
Mitutoyo Corporation	\$83,823
Nancy Lurie Marks Family Foundation	\$170,149
NASA Glenn Research Center	\$113,436
NASA Goddard Space Flight Center	\$581,687
NASA Headquarters - Washington	\$14,310,073
NASA Langley Research Center	\$31,340
NASA Shared Services Center	\$128,501
National Endowment for the Arts	\$49,645
National Endowment for the Humanities	\$86,273
National Geographic Society	\$4,028
National Reconnaissance Office	\$100,353
National Security Agency	\$19,937
Naval Postgraduate School	\$49,450
Navy - Other	\$132,754
Netherlands Org for Scientific Rsrch	\$122,021
New Jersey Health Foundation, Inc.	\$164,382
New-Land Foundation	\$42,417
NIH NCATS	\$23,101
NIH NCI	\$2,388,989
NIH NEI	\$1,347,371
NIH NHGRI	\$1,357,436
NIH NHLBI	\$1,337,584
NIH NIA	\$1,228,404
NIH NIAID	\$6,234,956
NIH NIAMS	\$1,151,594
NIH NIBIB	\$981,280
NIH NICHD	\$4,863,694
NIH NIDA	\$1,297,555
NIH NIDDK	\$1,853,242
NIH NIEHS	\$28,058
NIH NIGMS	\$17,839,055
NIH NIMH	\$7,779,319
NIH NIMHD	\$529,962
NIH NINDS	\$7,043,677
NIH NINR	\$37,382

TABLE 7 (Cont.)

Sponsor/Agency	Expenditures
NIH Office of the Director	\$1,084,797
NJ Commission on Brain Injury Research	\$90,394
NJ Commission on Cancer Research	\$381,002
NJ Commission on Spinal Cord Research	\$154,753
NJ Dept of Human Services	\$48,276
NJ State Council on the Arts	\$30,000
NOMIS Foundation	\$25,304
NordForsk	\$13,663
NSF - National Science Foundation	\$64,442,310
Ntl Historical Pubs. and Records Comm	\$132,612
Ntl Inst of Standards and Technology	\$6,352
Ntl Institute of Food and Agriculture	\$72,789
ODH, Inc.	\$121,430
Office of Naval Research	\$5,569,337
Optimeos Life Sciences, LLSC	\$231,164
Otsuka Pharm Dev & Commercialization	\$14,511
Peter Gruber Foundation	-\$1,912
Pew Scholars Prog in the Biomedical Sci	\$153,017
Pfizer Inc.	\$425,552
PlanetLab	\$192,286
Ploughshares Fund	\$0
Qatar National Research Fund	\$27,019
Raymond and Beverly Sackler Foundation	\$12,465
Research Corporation	\$10,149
Rita Allen Foundation, Inc.	\$3,098
Robert Wood Johnson Foundation	\$4,078,816
Rockefeller Brothers Fund, Inc.	\$130,595
Russell Sage Foundation	\$66,916
Rutgers Cancer Institute of New Jersey	\$7,595
SABIC Technology Center	-\$149
Samuel H. Kress Foundation	\$18,513
Schlumberger Foundation	\$10,865
Searle Scholars Program	\$209,131
Semiconductor Research Corporation	\$877,363
Shandong Lutai Holding Co., Ltd.	\$6,090
Sidney Kimmel Fdn for Cancer Research	\$112,920
Siemens Corporation	\$493,886
Siemens Corporation, Corporate Tech	\$170,000
Silicon Valley Community Foundation	\$147,398
Smith Richardson Foundation, Inc.	\$34,265
Society for Conservation Biology	\$48,272

TABLE 7 (Cont.)

Sponsor/Agency	Expenditures
St. Jude's Children Research Hospital	\$63,162
Stand up to Cancer	\$207,755
Stanford University	\$81,813
Syncrude Canada Ltd.	\$1,777
Templeton Religion Trust	\$11,999
Templeton World Charity Foundation, Inc.	\$76,784
Tesla Motors Inc.	\$104,662
Texas A&M University	\$49,999
The Andrew W. Mellon Foundation	\$827,190
The Burroughs Wellcome Fund	\$324,785
The Camille and Henry Dreyfus Fdn., Inc.	\$108,036
The Clear Fund	\$0
The David and Lucile Packard Foundation	\$1,301,707
The Duke Endowment	\$49,880
The Ford Foundation	\$157,253
The Harry Frank Guggenheim Foundation	\$3,528
The Henry Luce Foundation, Inc.	\$209,199
The John D. & Catherine T. MacArthur Fdn	\$1,044,041
The John Templeton Foundation	\$440,897
The JPB Foundation	\$682,601
The Kenneth Rainin Foundation	\$3,988
The Kern Family Foundation	\$35,467
The Louisville Institute	\$9,206
The Lynde and Harry Bradley Fdn., Inc.	\$138,649
The Miami Foundation	\$158,276
The MITRE Corporation	\$1,460
The Nature Conservancy	\$113,102
The New York Stem Cell Foundation	\$298,431
The Nippon Foundation	\$191,803
The Orphiflamme Foundation	\$14,999
The Paul G Allen Family Foundation	\$86,595
The Pew Charitable Trusts	\$99,636
The Simons Foundation	\$6,034,395
The Spencer Foundation	\$19,835
The Susan G. Komen Breast Cancer Fdn.	\$178,838
The Swartz Foundation	\$135,070
The Thomas W. Smith Foundation	\$152,561
The V Foundation for Cancer Research	\$21,497
The Wellcome Trust	\$63,975
The World Bank	\$2,655
Thrive+ Health Inc.	\$52,201

TABLE 7 (Cont.)

Sponsor/Agency	Expenditures
Tides Foundation	\$22,190
TOTAL E&P Research & Technology USA, LLC	\$141,424
Trumpf Photonics, Inc.	\$68,198
U.S. Army Command & General Staff Coll	\$25,990
U.S. Department of Education	\$102,623
U.S. Department of Homeland Security	\$42,035
U.S. Department of State	\$1,002,732
U.S. Department of Transportation	\$394
U.S. Dept of Agriculture	\$34,936
U.S. DOC - Natl Oceanic & Atmos Admin	\$6,056,881
U.S. Food and Drug Administration	\$124,855
U.S. Inst of Museum & Library Services	\$262,616
U.S. Office of Personnel Management	\$32,035
U.S.-Israel Binational Science Fdn.	\$127,930
UC Berkeley Fdn. and Siebel Energy Inst.	\$4,426
Unilever R&D, Port Sunlight	\$112,127
University of California at Berkeley	\$47,602
Varuna Biomedical Corporation	\$98,848
VolkswagenStiftung	\$24,270
William T. Grant Foundation	\$9,890
Wizard Forms (RoomSage)	\$106,992
YRC Worldwide Inc.	\$527,054
Grand Total	\$238,349,350