



Old Dominion University Research Foundation

To: Distribution

From: Julian F. Facenda *Julian*
Executive Director

Date: November 13, 2018

Subject: Annual Report of Sponsored Program Activity - June 30, 2018

Attached please find the Annual Report of Sponsored Program Activity for the fiscal year ended June 30, 2018. This report measures sponsored program activity administered through Old Dominion University Research Foundation by the amount of actual expenditures (direct costs and indirect cost recoveries) incurred during the fiscal year. Unrecovered indirect cost is not included in this report. This report includes sponsored program activity administered by the Research Foundation for Old Dominion University and for certain independent entities affiliated with the University. Included in the report is a schedule of proposals submitted and awards funded for the fiscal year ended June 30, 2018 and the four previous fiscal years. Proposal activity is based upon the total dollar amount requested from sponsoring agencies exclusive of institutional or third party cost share amounts. Award activity reflects the dollar amount of actual funding committed during the reporting period.

The format of the report separately discloses the sponsored program activities of the core University units and the activity of affiliated units. The core University units include all of the academic departments, enterprise centers and self-supporting research positions. The affiliated units reflect sponsored programs of the Virginia Space Grant Consortium and the Tidewater Consortium for Higher Education.

Some key points to note with respect to the core University activity are as follows:

- University research expenditures decrease by 9.2% from fiscal year 2017 to \$42.5 million.
- Expenditures in excess of \$1 million by funding source for the fiscal year were:

U.S. Department of Health and Human Services	\$ 6.3 million
National Science Foundation	\$ 6.2 million
Virginia Department of Education	\$ 3.0 million
U.S. Department of Education	\$ 2.1 million
U.S. Navy	\$ 1.9 million
National Aeronautics and Space Administration	\$ 1.7 million
U.S. Air Force	\$ 1.6 million
U.S. Department of Energy	\$ 1.4 million
Virginia Department of Environmental Quality	\$ 1.2 million
Jefferson Science Associates, LLC (JLAB)	\$ 1.0 million

- The above rankings include agency funding passed-through from the University.

- Activity of individual faculty conducting research through University-wide enterprise centers is reflected under the faculty member's home department. The research activity of core staff assigned to an enterprise center is reflected in the center's activity. The Virginia Modeling, Analysis and Simulation Center (VMASC) and Frank Reidy Research Center for Bioelectronics core staff activities are reported under the Office of Research and Other Units.
- University departments (including SSRP's and center activity) exceeding \$1 million for the fiscal year were:

Ocean, Earth and Atmospheric Sciences	\$ 4.0 million
Communication Disorders and Special Education	\$ 3.8 million
Physics	\$ 3.4 million
Electrical & Computer Engineering	\$ 3.1 million
Medical Diagnostic and Translational Sciences	\$ 2.9 million
Virginia Modeling, Analysis and Simulation Center	\$ 2.6 million
Biological Sciences	\$ 2.5 million
Chemistry and Biochemistry	\$ 2.3 million
Center for Enterprise Innovation	\$ 1.6 million
Computer Sciences	\$ 1.5 million
Frank Reidy Center for Bioelectronics	\$ 1.5 million
Modeling, Simulation and Visualization	\$ 1.3 million
Psychology	\$ 1.2 million
Nursing	\$ 1.1 million
Civil and Environmental Engineering	\$ 1.0 million
Mechanical and Aerospace Engineering	\$ 1.0 million

- Total University proposal submissions during fiscal year 2018 decreased 33% to \$250.8 million dollars. This decrease is primarily attributed to a single NASA proposal during each of the prior two years for \$100 million. Total University Awards funded during fiscal year 2018 increased 7.48% from fiscal year 2017 levels to \$47.4 million dollars.

The following charts graphically depict ODURF- related current fiscal year research expenditures and the trend in research activity over the past six years:

Chart A – Research Expenditures for University Activity Excluding Affiliates

This chart indicates percentage of total research expenditures for fiscal year 2016 for each college and other university units.

Chart B – Total Proposals Submitted and Awards Funded Including Affiliates

This chart indicates the change in proposal submissions from \$186 million during fiscal year 2008 to \$376 million dollars during fiscal year 2017. Awards funded during this same period increased from \$38 million to \$49 million.

Should you have any questions concerning the enclosed report please do not hesitate to contact me at 683-7210.

Chart A – Research Expenditures for University Units Excluding Affiliates

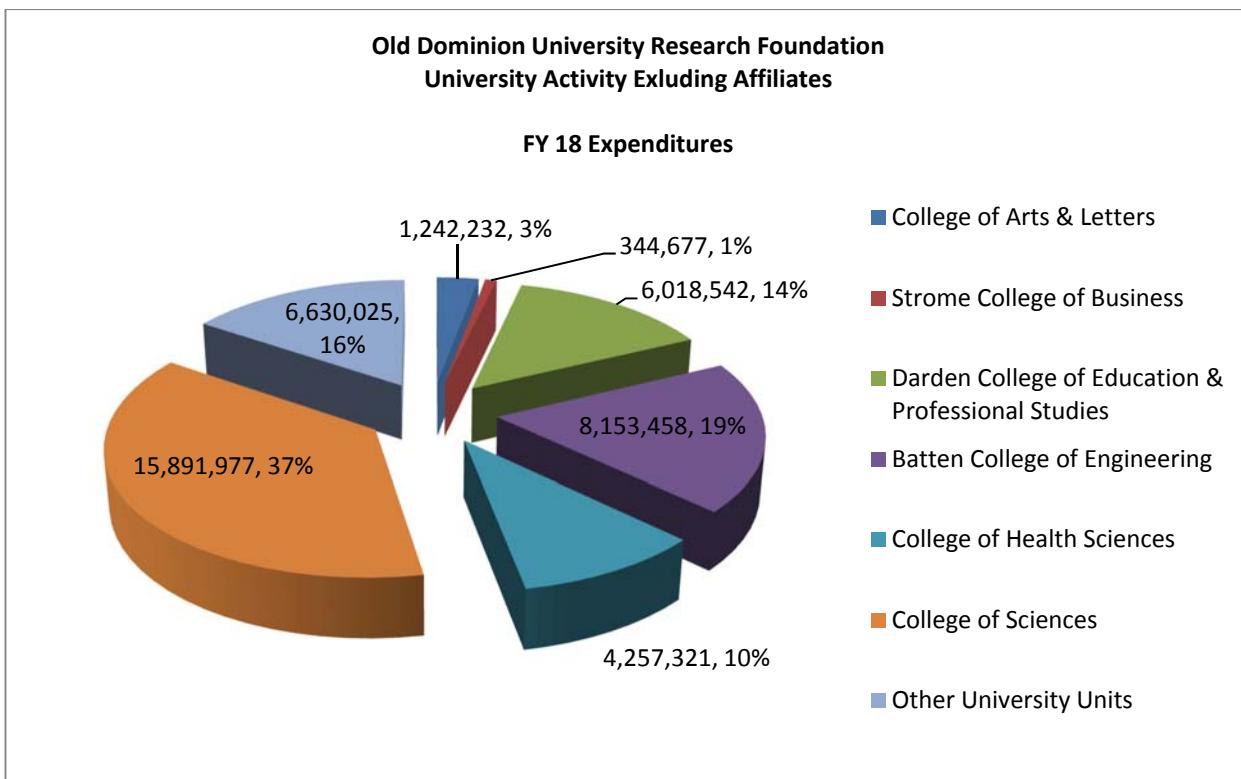
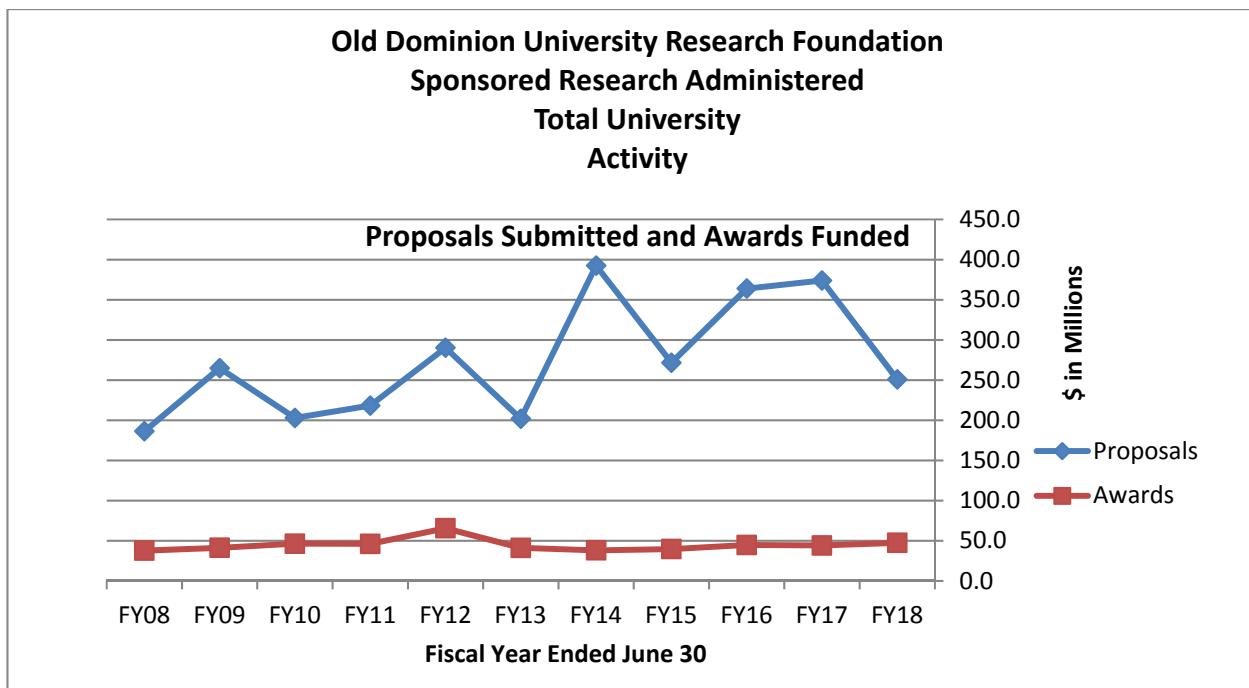


Chart B – Proposals Submitted and Awards Funded



DISTRIBUTION

Research Foundation Board of Trustees
University Vice Presidents
College Deans
Academic Department Chairs
Center Directors
Affiliated Unit Directors
Institutional Research Office
University Budget Office

CONTENTS

- Schedule 1** - Summary of Sponsored Program Activity
Fiscal Year 2018 through Fiscal Year 2013
- Schedule 2** - Summary of Sponsored Program Activity by Major Funding
Source – Fiscal Year 2018 through Fiscal Year 2014
- Schedule 3** - Comparison of Direct Cost, Indirect Cost and Effective Indirect
Cost Rates – University Units – Fiscal Year 2018 through Fiscal Year 2016
- Schedule 4** - Sponsored Program Activity Individual Project Listing
Fiscal Year 2018
- Schedule 5** - Enterprise Centers Including Projects Reported as Activity of an
Academic Department – Fiscal Year 2018
- Schedule 6** - Sponsored Program Activity – Proposals Submitted and
Awards Funded – Fiscal Year 2018 through Fiscal Year 2014

SCHEDULE 1

Summary of Sponsored Program Activity

Fiscal Year 2018 through Fiscal Year 2013

SCHEDULE 1
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF SPONSORED PROGRAM ACTIVITY
(MEASURED BY EXPENDITURES INCURRED)
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2013

	FY 18	FY 17	FY 16	FY 15	FY 14	FY 13
COLLEGE OF ARTS & LETTERS						
Dean's Office	\$ -	\$ -	\$ 2,129	\$ 14,430	\$ 30,491	\$ 26,210
Communication & Theatre Arts	\$ -	\$ 2,075	\$ 33,450	\$ 1,868	\$ 6,905	\$ 5,366
English	\$ 106,763	\$ 63,828	\$ 50,117	\$ 60,229	\$ 81,313	\$ 68,275
Foreign Languages/Literatures	\$ -	\$ -	\$ -	\$ 3,826	\$ 1,867	\$ -
History	\$ 75,116	\$ 6,300	\$ 4,259	\$ 26,459	\$ 58,682	\$ 88,485
International Studies	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Political Science & Geography	\$ 77,207	\$ 27,324	\$ 61,425	\$ 29,781	\$ 83,956	\$ 20,341
Political Science & Geography - VMASC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,280
Philosophy & Religious Studies	\$ -	\$ 14,629	\$ 3,455	\$ -	\$ -	\$ 6,000
Social Science Research Center	\$ 208,762	\$ 166,351	\$ 149,199	\$ 130,809	\$ 175,408	\$ 206,241
Sociology & Criminal Justice	\$ 766,128	\$ 475,311	\$ 12,752	\$ 13,661	\$ 7,384	\$ 25,978
Women's Studies	\$ 8,255	\$ 15,128	\$ -	\$ -	\$ -	\$ -
College Total	\$ 1,242,232	\$ 770,946	\$ 316,786	\$ 281,063	\$ 446,006	\$ 452,176
% Change from prior year	61.13%	143.37%	12.71%	-36.98%	-1.36%	-43.39%
Average yearly increase (decrease)	34.94%					
STROME COLLEGE OF BUSINESS						
Economics	\$ 123,154	\$ 70,370	\$ 126,425	\$ (442)	\$ 60,093	\$ 59,357
Finance	\$ -	\$ -	\$ 2,444	\$ 7,495	\$ -	\$ -
Information Systems & Decision Sciences	\$ 95,253	\$ 139,319	\$ 158,436	\$ 148,544	\$ -	\$ 10,669
Information Systems & Decision Sciences - Cybersecurity	\$ 66,241	\$ 381	\$ -	\$ -	\$ -	\$ -
Management	\$ -	\$ 663	\$ 1,293	\$ -	\$ -	\$ 9,563
Marketing	\$ 13,760	\$ 12,308	\$ 3,863	\$ -	\$ -	\$ -
Public Service	\$ 46,269	\$ 25,276	\$ 10,262	\$ 10,404	\$ 22,176	\$ 71,133
College Total	\$ 344,677	\$ 248,316	\$ 302,722	\$ 166,001	\$ 82,269	\$ 150,722
% Change from prior year	38.81%	-17.97%	82.36%	101.78%	-45.42%	-17.86%
Average yearly increase (decrease)	25.74%					

SCHEDULE 1
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF SPONSORED PROGRAM ACTIVITY
(MEASURED BY EXPENDITURES INCURRED)
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2013

	FY 18	FY 17	FY 16	FY 15	FY 14	FY 13
--	-------	-------	-------	-------	-------	-------

DARDEN COLLEGE OF EDUCATION AND PROFESSIONAL STUDIES

Dean's Office	\$ 498,687	\$ 465,485	\$ 436,482	\$ 264,167	\$ 320,669	\$ 2,317,690
Center for Educational Partnerships	555,811	3,240,456	5,183,002	4,669,983	3,630,365	-
Communication Disorders and Special Education	3,812,902	3,842,934	3,708,022	3,650,009	3,544,135	3,076,659
Counseling and Human Services	299,968	345,081	72,310	111,934	124,783	141,942
Educational Foundations and Leadership	229,172	562,137	816,336	798,728	916,845	778,034
Human Movement Sciences	30,066	48,658	41,308	109,017	124,789	122,146
STEM Education and Professional Studies	283,082	842,959	1,320,821	1,848,198	1,730,137	1,213,575
STEM Education and Professional Studies - VMASC	-	-	-	-	-	6,325
Teaching and Learning	308,853	410,023	520,525	433,989	483,439	409,397
 College Total	 \$ 6,018,542	 \$ 9,757,734	 \$ 12,098,806	 \$ 11,886,025	 \$ 10,875,162	 \$ 8,065,768
% Change from prior year	-38.32%	-19.35%	1.79%	9.30%	34.83%	29.80%
Average yearly increase (decrease)	-5.08%					

COLLEGE OF ENGINEERING & BATTEN TECHNOLOGY

Dean's Office	\$ 533,243	\$ 415,031	\$ 290,154	\$ 101,365	\$ 111,954	\$ 57,060
Civil & Environmental Engineering	1,013,126	1,381,257	890,440	648,563	510,504	319,429
Civil & Environmental Engineering - VMASC	-	-	47,474	-	47,752	179,147
Civil & Environmental Engineering - VCERC	-	-	-	-	-	(361)
Electrical & Computer Engineering	1,469,081	1,216,735	921,054	893,818	1,213,846	1,162,556
Electrical & Computer Engineering - ARC	475,757	504,233	591,501	1,189,505	1,055,824	1,135,276
Electrical & Computer Engineering - Bioelectronics	1,045,485	534,322	775,182	1,043,637	379,808	335,663
Electrical & Computer Engineering - Cybersecurity	65,508	43,706	-	-	-	-
Engineering Career Management Center	-	-	-	-	103,513	8,650
Engineering Management and Systems Engineering	554,560	414,241	410,275	536,522	136,861	301,453
Engineering Management and Systems Engineering - VMASC	-	-	-	-	-	14,298
Engineering Management and Systems Engineering - NCSOSE	-	-	11,012	41,687	158,340	939,755
Engineering Technology	726,117	811,348	861,881	370,170	349,540	453,958
Engineering Technology - ARC	-	-	-	3,063	90,721	73,773
Mechanical & Aerospace Engineering	1,012,472	1,181,404	731,570	799,335	619,202	789,354
Mechanical & Aerospace Engineering - ARC	-	15,438	23,721	24,024	40,953	48,271
Modeling, Simulation & Visualization	567,858	578,878	505,132	398,185	452,114	226,984
Modeling, Simulation & Visualization - VMASC	690,251	597,087	2,003,612	3,087,263	2,754,598	2,675,870
 College Total	 \$ 8,153,458	 \$ 7,693,679	 \$ 8,063,007	 \$ 9,137,137	 \$ 8,025,530	 \$ 8,730,315
% Change from prior year	5.98%	-4.58%	-11.76%	13.85%	-8.07%	-13.89%
Average yearly increase (decrease)	-1.32%					

SCHEDULE 1
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF SPONSORED PROGRAM ACTIVITY
(MEASURED BY EXPENDITURES INCURRED)
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2013

	FY 18	FY 17	FY 16	FY 15	FY 14	FY 13
COLLEGE OF HEALTH SCIENCES						
Dean's Office	\$ 17,920	\$ -	\$ (72)	\$ 25,073	\$ 5,744	\$ -
Community & Environmental Health	209,101	98,912	95,308	99,218	355,423	452,579
Dental Hygiene	(20,221)	42,674	53,022	63,993	41,673	87,399
Medical Diagnostic & Translational Sciences	428,063	691,061	358,374	23,438	5,744	-
Medical Diagnostic & Translational Sciences - Bioelectronics	2,422,581	2,216,849	2,479,922	1,447,102	1,469,850	1,414,519
Nursing	1,077,828	1,937,351	1,362,754	930,615	646,297	746,212
Physical Therapy	122,050	80,427	100,441	199,606	227,299	155,802
College Total	\$ 4,257,321	\$ 5,067,273	\$ 4,449,749	\$ 2,789,045	\$ 2,752,030	\$ 2,856,511
% Change from prior year	-15.98%	13.88%	59.54%	1.35%	-3.66%	29.45%
Average yearly increase (decrease)	9.81%					
COLLEGE OF SCIENCES						
Dean's Office	\$ -	\$ -	\$ 1,420	\$ 8,820	\$ 19,560	\$ 12,688
Biological Sciences	2,535,072	2,039,337	1,742,699	1,614,718	1,665,748	2,566,263
Biological Sciences - Bioelectronics	-	-	-	-	13,785	81,084
Biological Sciences - VMASC	-	-	-	-	-	-
Biological Sciences - VCERC	-	-	-	-	-	(723)
Center for Coastal Physical Oceanography	822,626	939,208	693,392	865,985	1,289,616	1,046,395
Center for Coastal Physical Oceanography - SSRP	-	-	-	-	-	23,417
Center for Coastal Physical Oceanography - MARI	107,505	58,186	32,915	-	-	-
Chemistry and Biochemistry	2,315,738	2,618,322	2,202,356	1,780,131	1,519,745	762,725
Chemistry and Biochemistry - ARC	357	-	-	-	-	-
Chemistry and Biochemistry - VCERC	-	-	(5,971)	49,077	284,215	226,784
Computer Science	1,538,808	1,614,304	1,607,758	1,188,118	995,043	1,335,587
Mathematics and Statistics	833,920	669,176	751,636	684,811	827,479	707,245
Ocean, Earth & Atmospheric Sciences	2,606,361	2,722,270	3,229,908	2,379,550	3,721,649	3,007,643
Ocean, Earth & Atmospheric Sciences - SSRP	499,463	558,257	349,294	494,657	285,222	269,375
Physics	3,439,875	3,571,771	3,562,835	3,415,041	4,097,273	3,828,554
Physics - ARC	-	-	-	-	-	-
Psychology	1,192,251	1,221,594	1,326,747	1,292,856	1,536,955	1,301,244
Psychology - Bioelectronics	-	-	-	-	-	4,670
Psychology - VMASC	-	-	-	-	-	-
College Total	\$ 15,891,977	\$ 16,012,427	\$ 15,494,987	\$ 13,773,764	\$ 16,256,290	\$ 15,172,951
% Change from prior year	-0.75%	3.34%	12.50%	-15.27%	7.14%	-7.41%
Average yearly increase (decrease)	0.95%					

SCHEDULE 1
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF SPONSORED PROGRAM ACTIVITY
(MEASURED BY EXPENDITURES INCURRED)
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2013

	FY 18	FY 17	FY 16	FY 15	FY 14	FY 13
OFFICE OF RESEARCH AND OTHER UNITS						
Office of Research	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Virginia Modeling, Analysis & Simulation Center	2,574,951	2,386,352	1,822,109	1,995,708	2,199,704	3,639,735
Frank Reidy Research Center for Bioelectrics	1,528,092	2,267,188	1,350,583	516,121	386,742	519,410
The Graduate School	169,352	-	-	-	-	-
Office of Distance Learning	-	-	-	-	-	-
Center of Enterprise Innovation	1,313,045	1,709,338	1,658,975	1,355,165	1,365,604	941,862
Miscellaneous ODU Units	859,658	933,229	898,552	744,696	662,388	665,073
Miscellaneous ODU Units - Cybersecurity	184,928	-	-	-	-	-
Total Other Units	\$ 6,630,025	\$ 7,296,107	\$ 5,730,219	\$ 4,611,690	\$ 4,614,438	\$ 5,766,080
% Change from prior year	-9.13%	27.33%	24.25%	-0.06%	-19.97%	62.88%
Average yearly increase (decrease)	3.00%					
TOTAL UNIVERSITY ACTIVITY	\$ 42,538,232	\$ 46,846,483	\$ 46,456,275	\$ 42,644,725	\$ 43,051,725	\$ 41,194,523
% CHANGE FROM PRIOR YEAR	-9.20%	0.84%	8.94%	-0.95%	4.51%	4.38%
Average yearly increase (decrease)	0.65%					
AFFILIATED ACTIVITY						
Virginia Commercial Space Flight Authority	-	-	-	13,442,449	20,074,491	27,850,335
Virginia Space Flight Academy	-	-	-	-	21,042	56,576
Mid-Atlantic Institute for Space & Technology	-	-	-	-	-	2,974
Association for Consortium Leadership	-	-	-	-	-	42,193
Virginia Tidewater Consortium for Higher Education	576,141	575,071	633,094	567,905	670,218	878,921
Virginia Space Grant Consortium	3,485,841	3,499,493	3,369,477	4,136,516	4,683,565	3,952,207
TOTAL AFFILIATED ACTIVITY	4,061,982	4,074,564	4,002,572	18,146,870	25,449,316	32,783,206
% CHANGE FROM PRIOR YEAR	-0.31%	1.80%	-77.94%	-28.69%	-22.37%	-37.55%
Average yearly increase (decrease)	-17.52%					
GRAND TOTAL	46,600,214	50,921,047	50,458,846	60,791,595	68,501,041	73,977,729

Note: Certain prior year amounts have been restated to be consistent with current year presentation.

SCHEDULE 2

Summary of University Activity

Major Funding Source

Fiscal Year 2018 through Fiscal Year 2014

SCHEDULE 2
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF UNIVERSITY ACTIVITY BY MAJOR FUNDING SOURCE
(MEASURED BY EXPENDITURES INCURRED)
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2014

FUNDING SOURCE / AGENCY	FY18		FY17		FY16		FY15		FY14	
	Amount	Percent of Total								
FEDERAL										
National Science Foundation	\$ 6,529,391	14.0%	\$ 6,721,391	14.3%	6,551,190	14.1%	5,854,012	13.7%	6,744,966	15.7%
U.S. Department of Health & Human Services	6,304,663	13.5%	6,633,834	14.2%	4,254,422	9.2%	2,980,391	7.0%	3,383,887	7.9%
National Aeronautics & Space Administration	2,676,528	5.7%	1,464,654	3.1%	1,157,102	2.5%	1,293,397	3.0%	1,199,132	2.8%
United States Navy	1,747,861	3.8%	2,230,435	4.8%	3,063,024	6.6%	3,366,028	7.9%	2,351,801	5.5%
U.S. Department of Energy	1,487,637	3.2%	1,507,898	3.2%	1,644,625	3.5%	-	0.0%	2,315,012	5.4%
U.S. Department of Education	1,467,534	3.1%	4,216,252	9.0%	\$ 6,693,743	14.4%	\$ 8,634,757	20.2%	\$ 6,094,680	14.2%
United States Air Force	865,729	1.9%	493,352	1.1%	261,040	0.6%	35,265	0.1%	-	0.0%
Small Business Administration	485,835	1.0%	483,600	1.0%	400,172	0.9%	420,985	1.0%	343,418	0.8%
National Endowment/Humanities	230,079	0.2%	110,225	0.2%	242,957	0.5%	126,131	0.3%	51,203	0.1%
National Oceanic & Atmospheric Administration	199,609	0.4%	257,530	0.5%	63,088	0.1%	35,092	0.1%	39,532	0.1%
United States Army	195,239	0.4%	6,079	0.0%	11,638	0.0%	162,513	0.0%	718,011	1.7%
U.S. Department of Agriculture	167,973	0.4%	139,902	0.3%	707	0.0%	-	0.0%	47,665	0.1%
Fermi National Accelerator Lab	167,137	0.6%	159,185	0.6%	251,207	0.5%	351,579	0.8%	68,895	0.2%
Institute of Museum and Library Services	161,725	0.3%	248,376	0.5%	322,314	0.7%	219,942	0.5%	63,142	0.1%
U.S. Department of Justice	136,825	0.3%	6,218	0.0%	101,136	0.2%	58,648	0.0%	71,733	0.2%
National Institute of Standards and Technology	107,400	0.4%	164,434	0.4%	349,808	0.8%	251,433	0.6%	41,439	0.1%
U.S. Environmental Protection Agency	7,500	0.2%	17,770	0.2%	66,944	0.1%	60,940	0.0%	14,303	0.0%
National Security Agency	-	0.0%	99,401	0.2%	17,275	0.0%	-	0.0%	-	0.0%
U.S. Department of Defense - Other	-	0.0%	94,468	0.2%	367,194	0.8%	617,406	1.4%	698,808	1.6%
Non-Disclosed Sponsors	-	0.0%	71,852	0.2%	-	0.0%	-	0.0%	-	0.0%
U.S. Department of Housing and Urban Development	-	0.0%	52,377	0.1%	100,248	0.2%	6,576	0.0%	-	0.0%
U.S. Department of Homeland Security	-	0.0%	-	0.0%	-	0.0%	-	0.0%	108,293	0.3%
Library of Congress	-	0.0%	-	0.0%	-	0.0%	-	0.0%	17,832	0.0%
Other Federal	327,130	0.7%	204,360	0.4%	203,924	0.4%	202,489	0.0%	162,942	0.4%
SUBTOTAL FEDERAL	\$ 23,265,796	49.5%	\$ 25,383,592	54.2%	\$ 26,123,759	55.8%	\$ 24,677,586	56.7%	\$ 24,536,694	56.6%

SCHEDULE 2
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF UNIVERSITY ACTIVITY BY MAJOR FUNDING SOURCE
(MEASURED BY EXPENDITURES INCURRED)
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2014

FUNDING SOURCE / AGENCY	FY18		FY17		FY16		FY15		FY14	
	Amount	Percent of Total								
STATE & LOCAL GOVERNMENT AND AGREEMENTS WITH OTHER UNIVERSITIES										
Old Dominion University - See Note	\$ 9,398,469	20.2%	\$ 8,805,528	18.8%	\$ 7,912,031	17.0%	\$ 7,024,744	16.5%	\$ 6,120,236	14.2%
State Council of Higher Education for Virginia	819,088	1.8%	-	0.0%	48,032	0.1%	109,031	0.3%	35,809	0.1%
University of Virginia	600,296	1.3%	444,556	0.9%	306,900	0.7%	233,490	0.5%	203,071	0.5%
Governor's Office	347,249	0.7%	452,707	1.0%	424,733	0.9%	-	0.0%	-	0.0%
University of Illinois	337,789	0.7%	263,331	0.6%	-	0.0%	128,817	0.3%	255,151	0.6%
Virginia Polytechnic Institute and State University	336,387	0.7%	37,868	0.1%	50,062	0.1%	276,454	0.6%	-	0.0%
Norfolk State University	316,229	0.7%	302,588	0.6%	182,110	0.4%	49,419	0.1%	60,796	0.1%
Virginia Marine Resources Commission	275,789	0.6%	281,506	0.6%	268,114	0.6%	306,969	0.7%	327,703	0.8%
Virginia Department of Motor Vehicles	275,445	0.6%	234,061	0.5%	246,916	0.5%	262,515	0.6%	303,964	0.7%
Virginia Department of Emergency Management	236,566	0.5%	87,512	0.2%	85,308	0.2%	99,816	0.2%	498,667	1.2%
Colorado School of Mines	235,350	0.5%	37,712	0.1%	-	0.0%	-	0.0%	-	0.0%
Iowa State University	200,681	0.4%	229,776	0.4%	236,604	0.4%	221,568	0.5%	188,858	0.4%
Virginia Institute of Marine Sciences	196,123	0.4%	122,410	0.3%	101,293	0.2%	77,524	0.2%	145,916	0.3%
Hampton Roads Sanitation District Commission	172,771	0.4%	109,972	0.2%	113,734	0.3%	186,822	0.4%	41,098	0.1%
State University of New Jersey (all campuses)	172,197	0.4%	224,870	0.5%	131,470	0.3%	152,130	0.4%	234,796	0.5%
Texas A&M University	163,353	0.4%	133,692	0.3%	130,156	0.3%	59,947	0.1%	20,043	0.0%
Crater Planning District Commission	124,991	0.3%	131,139	0.3%	146,141	0.3%	111,352	0.3%	139,090	0.3%
George Mason University	116,977	0.3%	140,655	0.3%	165,351	0.4%	56,657	0.1%	48,681	0.1%
University of Michigan	111,685	0.2%	71,699	0.2%	110,461	0.2%	184,156	0.4%	-	0.0%
North Carolina State University	85,589	0.2%	61,517	0.1%	43,004	0.1%	57,743	0.1%	56,337	0.1%
Virginia Department of Transportation	83,698	0.2%	66,089	0.1%	71,051	0.2%	85,179	0.2%	97,572	0.2%
Temple University	77,635	0.2%	111,014	0.2%	59,589	0.1%	48,262	0.1%	-	0.0%
University of Southern Mississippi	71,863	0.2%	163,162	0.3%	50,764	0.1%	36,788	0.1%	-	0.0%
Florida Fish & Wildlife Conservation Commission	67,166	0.1%	61,844	0.1%	47,258	0.1%	-	0.0%	-	0.0%
Eastern Virginia Medical School	64,979	0.1%	107,954	0.2%	162,934	0.4%	145,427	0.3%	199,933	0.5%
Rochester Institute of Technology	51,750	0.1%	60,514	0.1%	73,600	0.2%	46	0.0%	-	0.0%
City of Virginia Beach	43,932	0.8%	18,504	0.8%	247,497	0.5%	456,935	1.1%	298,851	0.7%
City of Portsmouth	40,468	0.1%	21,821	0.0%	151,616	0.3%	343,603	0.8%	-	0.0%
University of Maryland	34,433	0.1%	140,576	0.3%	114,225	0.2%	54,735	0.1%	56,451	0.1%
University of Colorado	3,575	0.0%	63,635	0.1%	19,475	0.0%	-	0.0%	2,399	0.0%
Georgia Regents University	-	0.5%	307,004	0.5%	535,479	0.5%	321,166	0.8%	272,968	0.6%
State University of New Jersey	-	0.0%	224,870	0.5%	131,470	0.3%	152,130	0.4%	234,796	0.5%
Johns-Hopkins Hospital	-	0.0%	121,847	0.3%	43,157	0.1%	-	0.0%	2,551	0.0%
Commonwealth Health Research Board	-	0.0%	91,828	0.2%	81,654	0.2%	-	0.0%	-	0.0%
Center of Innovative Technology	-	0.0%	-	0.0%	129,133	0.3%	83,791	0.2%	210,935	0.5%
University of Idaho	-	0.0%	-	0.0%	109,712	0.2%	373,854	0.9%	257,799	0.6%
Florida Department of Environmental Protection	-	0.0%	-	0.0%	107,779	0.2%	2,584	0.0%	-	0.0%
Virginia Department of Environmental Quality	-	0.0%	-	0.0%	-	0.4%	269,920	0.4%	1,057,860	1.5%
University of Southern California	-	0.0%	84,742	0.2%	115,849	0.2%	124,226	0.3%	70,129	0.2%
University of Toledo	(16,299)	0.0%	-	0.0%	2,482	0.0%	(9,562)	0.0%	-	0.0%
Other State & Local	1,087,552	2.3%	1,002,579	2.1%	923,663	2.0%	301,586	0.7%	831,188	1.9%
SUBTOTAL STATE & LOCAL	\$ 16,133,774	35.7%	\$ 14,821,085	32.1%	\$ 13,880,807	29.6%	\$ 12,389,827	28.9%	\$ 12,273,648	27.6%

SCHEDULE 2
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF UNIVERSITY ACTIVITY BY MAJOR FUNDING SOURCE
(MEASURED BY EXPENDITURES INCURRED)
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2014

FUNDING SOURCE / AGENCY	FY18		FY17		FY16		FY15		FY14	
	Amount	Percent of Total								
PRIVATE AND OTHER SPONSORS										
Jefferson Science Associates	\$ 1,004,818	2.2%	\$ 1,178,928	2.5%	\$ 1,164,984	2.5%	\$ 1,061,585	2.5%	\$ 1,040,048	2.4%
Pulse Biosciences, Inc.	906,568	1.9%	854,008	1.8%	1,006,931	2.2%	214,159	0.5%	-	0.0%
National Institute of Aerospace	469,843	1.0%	473,785	1.0%	459,190	1.0%	319,519	0.7%	251,851	0.6%
University of Southampton	463,067	1.0%	594,160	1.3%	606,869	1.3%	613,368	1.4%	125,447	0.3%
The National Academies	398,008	0.9%	37,576	0.1%	-	0.0%	-	0.0%	3,963	0.0%
World Conservation Union (IUCN)	188,617	0.4%	213,108	0.5%	152,773	0.3%	134,104	0.3%	72,603	0.2%
Genedge Alliance (formerly Philpott Manufacturing)	179,259	0.4%	307,053	0.7%	259,820	0.6%	223,265	0.5%	145,990	0.3%
CACI, Inc.--Federal	163,551	0.4%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Non-Disclosed	157,383	0.3%	181,808	0.4%	170,200	0.4%	136,827	0.3%	-	0.0%
Center for Mind and Culture	155,875	0.3%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Ferring Pharmaceuticals Inc.	135,072	0.3%	43,345	0.1%	-	0.0%	-	0.0%	-	0.0%
WR Systems LTD	119,355	0.3%	-	0.0%	-	0.0%	19,030	0.0%	151,285	0.4%
Camber Corporation	115,206	0.2%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Jeffress	112,751	0.2%	123,323	0.3%	90,880	0.2%	75,561	0.2%	48,782	0.1%
Applied Research Associates, Inc.	109,811	0.2%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Engility	94,136	0.2%	126,096	0.3%	85,513	0.2%	-	0.0%	-	0.0%
Opportunity, Inc.	91,583	0.2%	-	0.0%	14,376	0.0%	118,474	0.3%	93,313	0.2%
The Geneva Foundation	90,574	0.2%	227,252	0.5%	110,173	0.2%	-	0.0%	-	0.0%
Battelle Corporation	90,337	0.2%	152,594	0.3%	41,146	0.1%	-	0.0%	51,114	0.1%
Plasser American Corporation	87,212	0.2%	10,307	0.0%	-	0.0%	-	0.0%	-	0.0%
Vr Rehab, Inc.	85,746	0.2%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Ocean Bay, LLC	85,398	0.2%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Sentara Hospitals	81,296	0.2%	(245)	0.0%	56,745	0.1%	63,766	0.1%	-	0.0%
Commonwealth Center for Advanced Manufacturing	70,423	0.2%	148,902	0.3%	117,383	0.3%	138,773	0.3%	-	0.0%
Midland GIS Solutions	66,996	0.1%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
NATO	56,000	0.1%	56,800	0.1%	-	0.0%	-	0.0%	-	0.0%
Blue Moon Fund	48,955	0.1%	147,305	0.3%	166,253	0.4%	-	0.0%	-	0.0%
Qatar University	27,745	0.1%	84,255	0.2%	127,698	0.3%	25,861	0.1%	50,312	0.1%
Dominion Resources Services, Inc.	19,068	0.0%	(2,504)	0.0%	158,722	0.3%	122,159	0.3%	169,877	0.4%
Lifenet	45	0.0%	100,905	0.2%	9,679	0.0%	3,360	0.0%	10,748	0.0%
LMI	-	0.0%	100,704	0.2%	113,096	0.2%	127,880	0.3%	158,926	0.4%
Boston VA Research Institute, Inc	-	0.0%	61,417	0.1%	67,810	0.1%	-	0.0%	-	0.0%
Stihl	-	0.0%	29,394	0.1%	100,103	0.2%	16,103	0.0%	-	0.0%
American Diabetes Association	-	0.0%	15,093	0.0%	55,927	0.1%	194,606	0.5%	176,183	0.4%
Advanced Anti-Terror Technologies, Inc.	-	0.0%	-	0.0%	117,383	0.3%	106,091	0.2%	155,482	0.4%
General Dynamics	-	0.0%	-	0.0%	97,954	0.2%	-	0.0%	177,690	0.4%
Oncosec Medical, Inc.	-	0.0%	-	0.0%	25,764	0.1%	129,990	0.3%	234,431	0.5%
Continental Automotive Systems, Inc	-	0.0%	-	0.0%	-	0.0%	148,000	0.3%	-	0.0%
Cubic Applications, Inc.	-	0.0%	-	0.0%	-	0.0%	147,073	0.3%	289,126	0.7%
Medical Cyberworlds, Inc.	-	0.0%	-	0.0%	-	0.0%	139,377	0.3%	67,779	0.2%
Commonwealth Center for Advanced Manufacturing	-	0.0%	-	0.0%	-	0.0%	138,773	0.3%	1,646	0.0%
Niowave, Inc.	-	0.0%	84,145	0.2%	27,620	0.1%	-	0.0%	484,236	1.1%
Cazador LLC	-	0.0%	-	0.0%	-	0.0%	-	0.0%	197,255	0.5%
Business Gateway	-	0.0%	-	0.0%	-	0.0%	-	0.0%	161,416	0.4%
Children Surgical	-	0.0%	-	0.0%	-	0.0%	-	0.0%	121,776	0.3%
Alion Science and Technology Corporation	-	0.0%	-	0.0%	-	0.0%	-	0.0%	103,513	0.2%
Other Private Sponsors	1,525,947	3.3%	1,292,290	2.8%	1,046,718	2.3%	1,159,610	2.7%	1,696,591	3.9%
SUBTOTAL PRIVATE	\$ 7,200,645	15.5%	\$ 6,641,804	14.2%	\$ 6,451,709	13.9%	\$ 5,577,313	13.1%	\$ 6,241,383	14.5%

SCHEDULE 2
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF UNIVERSITY ACTIVITY BY MAJOR FUNDING SOURCE
 (MEASURED BY EXPENDITURES INCURRED)
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2014

FUNDING SOURCE / AGENCY	FY18		FY17		FY16		FY15		FY14	
	Amount	Percent of Total								
TOTAL	\$ 46,600,215	100.7%	\$ 46,846,482	100.5%	\$ 46,456,275	99.3%	\$ 42,644,726	98.7%	\$ 43,051,725	98.7%

SCHEDULE 2
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF UNIVERSITY ACTIVITY BY MAJOR FUNDING SOURCE
(MEASURED BY EXPENDITURES INCURRED)
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2014

FUNDING SOURCE / AGENCY	FY18		FY17		FY16		FY15		FY14	
	Amount	Percent of Total								

Note: Certain agencies require direct award to Old Dominion University. The following represents the expenditures by agency on projects passed through by the University.

Old Dominion University pass through from:

Virginia Department of Education	\$ 2,299,531	4.9%	\$ 3,464,512	7.4%	\$ 4,138,355	8.9%	\$ 4,008,186	9.4%	\$ 3,976,459	9.2%
U.S. Department of Education	2,107,455	4.5%	1,173,032	2.5%	758,034	1.6%	420,562	1.0%	627,283	1.5%
United States Air Force	1,684,133	3.6%	1,304,868	2.8%	466,154	1.0%	-	0.0%	-	0.0%
Virginia Department of Environmental Quality	1,179,356	2.5%	1,236,651	2.6%	1,068,484	2.3%	909,391	2.1%	148,227	0.3%
U.S. Department of Labor	553,902	1.2%	364,696	0.8%	-	0.0%	-	0.0%	-	0.0%
National Aeronautics & Space Administration	330,780	0.7%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Old Dominion University	247,671	0.5%	376,791	0.8%	352,261	0.8%	639,858	1.5%	519,240	1.2%
Virginia Department of Behavioral Health	224,750	0.5%	192,742	0.4%	76,500	0.2%	57,140	0.1%	98,880	0.2%
United States Navy	151,106	0.3%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Virginia Biosciences Health Research Corp.	106,679	0.2%	339,013	0.7%	508,416	1.1%	-	0.0%	-	0.0%
State Council of Higher Education for Virginia	101,004	0.2%	17,139	0.0%	-	0.0%	-	0.0%	-	0.0%
U.S. Department of Energy	90,334	0.2%	226,505	0.5%	480,206	1.0%	245,720	0.6%	161,459	0.4%
Hampton Roads Cyber Collaboration	71,733	0.2%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Foreign	62,128	0.1%	-	0.0%	(210)	0.0%	194,204	0.5%	16,218	0.0%
Virginia Department Of Health	-	0.0%	4,349	0.0%	-	0.0%	-	0.0%	51,037	0.1%
Other Sponsors	187,908	0.4%	105,230	0.2%	63,831	0.1%	549,682	1.3%	521,433	1.2%
Old Dominion University Total	\$ 9,398,469	20.2%	\$ 8,805,528	18.8%	\$ 7,912,031	17.0%	\$ 7,024,744	16.5%	\$ 6,120,236	14.2%

Note: Certain prior year amounts have been restated to be consistent with current year presentation

SCHEDULE 3

**Comparison of Direct Cost, Indirect Cost and
Effective Indirect Cost Rates**

Fiscal Year 2018 through Fiscal Year 2016

SCHEDULE 3
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
REPORT OF SPONSORED PROGRAM ACTIVITY
DIRECT COST, INDIRECT COST AND EFFECTIVE INDIRECT COST RATE
(MEASURED BY EXPENDITURES INCURRED)
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2016

	Fiscal Year 2018					Fiscal Year 2017					Fiscal Year 2016				
	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate			
COLLEGE OF ARTS AND LETTERS															
Dean's Office	\$ -	\$ -	\$ -	0.0%	\$ -	\$ -	\$ -	0.0%	\$ 1,972	\$ 158	\$ 2,130	8.0%			
Communication and Theatre Arts	-	-	-	0.0%	2,075	-	2,075	0.0%	29,337	4,112	33,450	14.0%			
English	100,876	5,887	106,763	5.8%	58,683	5,145	63,828	8.8%	38,301	11,816	50,117	30.8%			
History	75,116	-	75,116	0.0%	6,300	-	6,300	0.0%	3,943	315	4,259	8.0%			
Philosophy & Religious Studies	-	-	-	0.0%	9,155	5,474	14,629	59.8%	2,461	994	3,455	40.4%			
Political Science & Geography	55,679	21,528	77,207	38.7%	19,907	7,417	27,324	37.3%	55,580	5,845	61,425	10.5%			
Social Science Research Center	189,245	19,517	208,762	10.3%	153,287	13,064	166,351	8.5%	140,772	8,427	149,199	6.0%			
Sociology & Criminal Justice	646,432	119,697	766,128	18.5%	348,563	126,748	475,311	36.4%	8,365	4,388	12,752	52.5%			
Women's Studies	8,255	-	8,255	0.0%	15,128	-	15,128	0.0%	-	-	-	0.0%			
College Total	\$ 1,075,603	\$ 166,629	\$ 1,242,231	15.5%	\$ 613,097	\$ 157,849	\$ 770,946	25.7%	\$ 280,730	\$ 36,056	\$ 316,786	12.8%			
COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION															
Economics	\$ 113,057	\$ 10,097	\$ 123,154	8.9%	\$ 47,904	\$ 22,466	\$ 70,370	46.9%	\$ 110,551	\$ 15,875	\$ 126,425	14.4%			
Finance	-	-	-	0.0%	-	-	-	0.0%	2,222	222	2,444	10.0%			
Information Systems / Decision Sciences	62,755	32,499	95,253	51.8%	93,184	46,135	139,319	49.5%	105,538	52,898	158,436	50.1%			
Information Systems & Decision Sciences - Cybersecurit	51,716	14,525	66,241	28.1%	381	-	381	0.0%	-	-	-	0.0%			
Management	-	-	-	0.0%	663	-	663	0.0%	1,293	-	1,293	0.0%			
Marketing	11,008	2,752	13,760	25.0%	9,847	2,462	12,308	25.0%	3,090	773	3,863	25.0%			
Public Service	31,661	14,608	46,269	46.1%	17,488	7,788	25,276	44.5%	8,388	1,874	10,262	22.3%			
College Total	\$ 270,197	\$ 74,481	\$ 344,677	27.6%	\$ 169,465	\$ 78,851	\$ 248,316	46.5%	\$ 231,081	\$ 71,641	\$ 302,722	31.0%			
COLLEGE OF EDUCATION															
Dean's Office	\$ 498,687	\$ -	\$ 498,687	0.0%	\$ 456,897	\$ 8,588	\$ 465,485	1.9%	\$ 412,693	\$ 23,789	\$ 436,482	5.8%			
Center for Education Partnerships	537,382	18,429	555,811	3.4%	3,008,429	232,028	3,240,457	7.7%	4,944,938	238,064	5,183,002	4.8%			
Communication Disorders and Special Education	3,527,428	285,474	3,812,902	8.1%	3,573,972	268,962	3,842,934	7.5%	3,465,079	242,944	3,708,022	7.0%			
Counseling and Human Services	289,571	10,396	299,968	3.6%	330,903	14,177	345,081	4.3%	67,863	4,448	72,310	6.6%			
Educational Foundations and Leadership	173,444	55,728	229,172	32.1%	482,372	79,765	562,137	16.5%	768,842	47,494	816,336	6.2%			
Human Movement Sciences	30,013	53	30,066	0.2%	45,923	2,734	48,658	6.0%	37,826	3,481	41,308	9.2%			
STEM Education and Professional Studies	261,567	21,515	283,082	8.2%	761,856	81,103	842,959	10.6%	1,238,737	82,084	1,320,821	6.6%			
Teaching and Learning	269,854	39,000	308,853	14.5%	359,562	50,462	410,023	14.0%	469,202	51,323	520,525	10.9%			
College Total	\$ 5,587,947	\$ 430,595	\$ 6,018,542	7.7%	\$ 9,019,915	\$ 737,818	\$ 9,757,734	8.2%	\$ 11,405,180	\$ 693,626	\$ 12,098,806	6.1%			

SCHEDULE 3
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
REPORT OF SPONSORED PROGRAM ACTIVITY
DIRECT COST, INDIRECT COST AND EFFECTIVE INDIRECT COST RATE
(MEASURED BY EXPENDITURES INCURRED)
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2016

	Fiscal Year 2018					Fiscal Year 2017					Fiscal Year 2016				
	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate			
COLLEGE OF ENGINEERING															
Dean's Office	\$ 424,865	\$ 108,378	\$ 533,243	25.5%	\$ 271,427	\$ 143,603	\$ 415,031	52.9%	\$ 201,636	\$ 88,518	\$ 290,154	43.9%			
Civil & Environmental Engineering	797,222	215,904	1,013,126	27.1%	1,119,109	262,148	1,381,257	23.4%	643,076	247,364	890,440	38.5%			
Civil & Environmental Engineering - VMASC	-	-	-	0.0%	-	-	-	0.0%	31,112	16,362	47,474	52.6%			
Electrical & Computer Engineering	1,020,967	448,113	1,469,081	43.9%	844,860	373,270	1,218,130	44.2%	647,731	273,323	921,054	42.2%			
Electrical & Computer Engineering-ARC	356,225	119,532	475,757	33.6%	393,407	109,434	502,841	27.8%	466,078	125,423	591,501	26.9%			
Electrical & Computer Engineering - Bioelectronics	685,184	360,301	1,045,485	52.6%	369,388	164,935	534,323	44.7%	516,039	259,143	775,182	50.2%			
Electrical & Computer Engineering - Cybersecurity	58,408	7,101	65,508	12.2%	30,676	13,031	43,706	42.5%	-	-	-	0.0%			
Engineering Management and Systems Engineering	367,836	186,724	554,560	50.8%	290,176	124,065	414,241	42.8%	302,065	108,210	410,275	35.8%			
Engineering Management and Systems Engineering - NCSOSE	-	-	-	0.0%	-	-	-	0.0%	6,882	4,129	11,012	60.0%			
Engineering Technology	574,639	151,477	726,117	26.4%	628,690	182,658	811,348	29.1%	728,840	133,041	861,881	18.3%			
Mechanical & Aerospace Engineering	745,804	266,668	1,012,472	35.8%	889,564	291,840	1,181,404	32.8%	550,565	181,004	731,570	32.9%			
Mechanical & Aerospace Engineering - ARC	-	-	-	0.0%	15,438	-	15,438	0.0%	23,721	-	23,721	0.0%			
Modeling, Simulation & Visualization	396,259	171,599	567,858	43.3%	376,226	202,649	578,875	53.9%	348,570	156,561	505,132	44.9%			
Modeling, Simulation & Visualization - VMASC	458,142	232,108	690,251	50.7%	527,027	70,061	597,088	13.3%	1,736,208	267,405	2,003,612	15.4%			
College Total	\$ 5,885,552	\$ 2,267,907	\$ 8,153,459	38.5%	\$ 5,755,988	\$ 1,937,694	\$ 7,693,682	33.7%	\$ 6,202,523	\$ 1,860,484	\$ 8,063,007	30.0%			
COLLEGE OF HEALTH SCIENCES															
Dean's Office	\$ 17,352	\$ 568	\$ 17,920	3.3%	\$ -	\$ -	\$ -	0.0%	\$ (72)	\$ -	\$ -	0.0%			
Community & Environmental Health	155,379	53,722	209,101	34.6%	86,087	12,824	98,912	14.9%	78,209	17,099	95,308	21.9%			
Dental Hygiene	(15,216)	(5,005)	(20,221)	32.9%	34,843	7,831	42,674	22.5%	45,527	7,495	53,022	16.5%			
Medical Diagnostic & Translational Sciences	364,162	63,900	428,063	17.5%	582,198	108,863	691,061	18.7%	300,763	57,611	358,374	19.2%			
Medical Diagnostic & Translational Sciences - Bioelectric	1,874,813	547,768	2,422,581	29.2%	1,637,580	579,271	2,216,851	35.4%	1,720,104	759,820	2,479,924	44.2%			
Nursing	1,032,499	45,329	1,077,828	4.4%	1,858,132	79,219	1,937,351	4.3%	1,314,803	47,951	1,362,754	3.6%			
Physical Therapy	115,783	6,267	122,050	5.4%	74,224	6,203	80,427	8.4%	90,239	10,201	100,441	11.3%			
College Total	\$ 3,544,772	\$ 712,549	\$ 4,257,321	20.1%	\$ 4,273,064	\$ 794,211	\$ 5,067,275	18.6%	\$ 3,549,573	\$ 900,178	\$ 4,449,751	25.4%			

SCHEDULE 3
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
REPORT OF SPONSORED PROGRAM ACTIVITY
DIRECT COST, INDIRECT COST AND EFFECTIVE INDIRECT COST RATE
(MEASURED BY EXPENDITURES INCURRED)
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2016

	Fiscal Year 2018				Fiscal Year 2017				Fiscal Year 2016			
	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate
COLLEGE OF SCIENCES												
Dean's Office	\$ -	\$ -	\$ -	0.0%	\$ -	\$ -	\$ -	0.0%	\$ 1,314	\$ 105	\$ 1,420	8.0%
Biological Sciences	2,047,524	487,548	2,535,072	23.8%	1,690,759	348,578	2,039,337	20.6%	1,419,895	322,804	1,742,699	22.7%
Center for Coastal Physical Oceanography	579,340	243,286	822,626	42.0%	710,014	229,194	939,208	32.3%	557,024	136,369	693,392	24.5%
Center for Coastal Physical Oceanography - MARI	104,002	3,503	107,505	3.4%	58,186	-	58,186	0.0%	31,141	1,774	32,915	5.7%
Chemistry and Biochemistry	1,761,776	553,963	2,315,738	31.4%	1,988,626	629,696	2,618,322	31.7%	1,725,149	477,206	2,202,356	27.7%
Chemistry and Biochemistry - VCERC	-	-	-	0.0%	-	-	-	0.0%	(3,903)	(2,069)	(5,971)	53.0%
Chemistry and Biochemistry - Applied Research Center	263	94	357	35.8%	-	-	-	0.0%	-	-	-	0.0%
Computer Sciences	1,160,155	378,653	1,538,808	32.6%	1,187,779	426,526	1,614,304	35.9%	1,153,310	454,447	1,607,758	39.4%
Mathematics & Statistics	653,234	180,686	833,920	27.7%	525,980	143,196	669,176	27.2%	571,415	180,221	751,636	31.5%
Ocean, Earth & Atmospheric Sciences	1,949,829	656,532	2,606,361	33.7%	2,006,550	715,720	2,722,270	35.7%	2,507,971	721,937	3,229,908	28.8%
Ocean, Earth & Atmospheric Sciences - SSRP	412,654	86,810	499,463	21.0%	455,646	102,611	558,257	22.5%	257,937	91,357	349,294	35.4%
Physics	2,777,603	662,272	3,439,875	23.8%	2,906,176	665,595	3,571,771	22.9%	2,912,270	650,565	3,562,835	22.3%
Psychology	973,559	218,693	1,192,251	22.5%	956,613	264,981	1,221,594	27.7%	1,015,421	311,327	1,326,747	30.7%
College Total	\$12,419,938	\$ 3,472,039	\$ 15,891,977	28.0%	\$12,486,330	\$ 3,526,097	\$ 16,012,427	28.2%	\$12,148,944	\$ 3,346,042	\$ 15,494,987	27.5%
OFFICE OF RESEARCH AND OTHER ACTIVITY												
Frank Reidy Research Center for Bioelectrics	\$ 1,054,270	\$ 473,822	\$ 1,528,092	44.9%	\$ 1,485,982	\$ 781,204	\$ 2,267,186	52.6%	\$ 902,224	\$ 448,357	1,350,581	49.7%
Virginia Modeling, Analysis and Simulation Center	1,996,377	578,573	2,574,951	29.0%	1,769,842	616,510	2,386,352	34.8%	1,293,308	528,801	1,822,109	40.9%
The Graduate School	141,159	28,193	169,352	20.0%	-	-	-	0.0%	-	-	-	0.0%
Center for Enterprise Innovation	1,150,599	162,446	1,313,045	14.1%	1,552,527	156,811	1,709,338	10.1%	1,542,735	116,239	1,658,975	7.5%
Miscellaneous ODU Units	784,646	75,012	859,658	9.6%	829,495	103,731	933,226	12.5%	824,126	74,426	898,552	9.0%
Miscellaneous ODU Units - Cybersecurity	151,910	33,018	184,928	21.7%	-	-	-	0.0%	-	-	-	0.0%
College Total Other Units	\$ 5,278,960	\$ 1,351,065	\$ 6,630,025	25.6%	\$ 5,637,847	\$ 1,658,255	\$ 7,296,102	29.4%	\$ 4,562,393	\$ 1,167,824	\$ 5,730,217	25.6%
TOTAL UNIVERSITY ACTIVITY												
	\$34,062,968	\$ 8,475,264	\$ 42,538,233	24.9%	\$37,955,707	\$ 8,890,775	\$ 46,846,482	23.4%	\$38,380,425	\$ 8,075,850	\$ 46,456,275	21.0%
AFFILIATED ACTIVITY												
Virginia Space Grant Consortium	3,274,896	210,945	3,485,841	6.4%	3,231,281	268,213	3,499,493	8.3%	3,098,476	271,002	3,369,477	8.7%
Virginia Tidewater Consortium for Higher Education	534,687	41,454	576,141	7.8%	533,395	41,676	575,071	7.8%	586,562	46,532	633,094	7.9%
TOTAL AFFILIATED ACTIVITY	\$ 3,809,584	\$ 252,398	\$ 4,061,982	14.2%	\$ 3,764,675	\$ 309,889	\$ 4,074,564	16.1%	\$ 3,685,038	\$ 317,534	\$ 4,002,572	16.7%
GRAND TOTAL	\$37,872,552	\$ 8,727,663	\$ 46,600,215	23.0%	\$41,720,383	\$ 9,200,664	\$ 50,921,047	22.1%	\$42,065,462	\$ 8,393,384	\$ 50,458,847	20.0%

SCHEDULE 4

Sponsored Program Activity

Individual Project Listing

Fiscal Year 2018

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT
(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
COLLEGE OF ARTS AND LETTERS											
English											
200211-010	NORFOLK COMMISSION ON THE ARTS & HUMANITIES	PEERY, J.	-	-	-	314.00	314.00	-	314.00	TRAD	
400363-010	ASSOCIATION FOR COMPUTING MACHINERY	RICHARDS, D.	-	710.00	-	-	710.00	-	710.00	TRAD	
300396-010	* OLD DOMINION UNIVERSITY	ZAREVA, A.	45,340.70	28,244.06	-	26,267.23	99,852.00	5,886.78	105,738.78	TRAD	
			45,340.70	28,954.06	-	26,581.23	100,876.00	5,886.78	106,762.78	5.84%	
History											
300426-010	UNIVERSITY OF MICHIGAN	NUTZMAN, M.	20,116.24	-	-	-	20,116.24	-	20,116.24	TRAD	
400326-010	AMERICAN COUNCIL OF LEARNED SOCIETIES	NUTZMAN, M.	55,000.02	-	-	-	55,000.02	-	55,000.02	TRAD	
			75,116.26	-	-	-	75,116.26	-	75,116.26	0.00%	
Political Science and Geography											
300321-010	VA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	ADAMS, F.	2,836.23	1,513.13	-	-	4,349.36	-	4,349.36	TRAD	
100527-022	NASA GODDARD SPACEFLIGHT CENTER	ALLEN, T.	-	8,868.20	-	-	8,868.20	-	8,868.20	TRAD	
200244-010	* VA PORT AUTHORITY	ALLEN, T.	9,650.09	60.05	-	530.22	10,240.36	5,631.96	15,872.32	TRAD	
300412-010	EAST CAROLINA STATE UNIVERSITY	ALLEN, T.	13,489.77	822.45	-	-	14,312.22	7,871.72	22,183.94	TRAD	
500336-010	* SCIENCE SYSTEMS & APPLICATIONS, INC.	ALLEN, T.	11,612.79	-	-	-	11,612.79	6,387.04	17,999.83	TRAD	
100682-010	* U.S. FISH AND WILDLIFE SERVICES	ALLEN, T.	5,795.57	500.76	-	-	6,296.33	1,637.04	7,933.37	TRAD	
			43,384.45	11,764.59	-	530.22	55,679.26	21,527.76	-	77,207.02	38.66%
Sociology and Criminal Justice											
100640-010	NATIONAL INSTITUTE OF JUSTICE	DAI, M.	77,171.12	11,103.05	-	-	88,274.17	48,550.81	136,824.98	TRAD	
300394-010	OLD DOMINION UNIVERSITY	GAINAY, R.	5,605.89	5,392.66	-	-	10,998.55	-	10,998.55	TRAD	
200221-020	* CITY OF SUFFOLK	GAINAY, R.	8,424.78	204.25	-	-	8,629.03	2,243.55	10,872.58	TRAD	
200248-010	* VIRGINIA OFFICE OF THE ATTORNEY GENERAL	GAINAY, R.	10,132.96	365.07	-	-	10,498.04	2,729.49	13,227.53	TRAD	
200267-010	CITY OF PORTSMOUTH	SUMTER, M.	10,486.06	-	-	-	10,486.06	5,767.33	16,253.39	TRAD	
200248-010	* VIRGINIA OFFICE OF THE ATTORNEY GENERAL	TRIPPLETT, R.	10,132.96	365.07	-	-	10,498.04	2,729.49	13,227.53	TRAD	
100581-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	YANG, X.	75,670.96	29,194.88	-	402,181.81	507,047.65	57,676.20	564,723.85	TRAD	
			197,624.74	46,624.98	-	402,181.81	646,431.53	119,696.86	-	766,128.40	18.52%
Women's Studies											
600205-010	UNIVERSITY OF TORONTO	FISH, J.	-	8,255.13	-	-	8,255.13	-	8,255.13	TRAD	
			-	8,255.13	-	-	8,255.13	-	8,255.13	0.00%	
Social Science Research Center											
200233-010	CITY OF PORTSMOUTH	VANDECAR-BURDIN, T.	18,922.48	295.37	-	-	19,217.85	4,996.64	24,214.49	SSRC	
200254-010	CITY OF VIRGINIA BEACH	VANDECAR-BURDIN, T.	1,012.70	-	-	-	1,012.70	158.99	1,171.69	SSRC	
200269-010	VIRGINIA BEACH DEPARTMENT OF PUBLIC HEALTH	VANDECAR-BURDIN, T.	248.88	-	-	-	248.88	136.88	385.76	SSRC	
300292-010	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	-	-	-	6,828.21	6,828.21	341.66	7,169.87	SSRC	
300312-010	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	29,166.01	20,483.71	-	-	49,649.72	2,482.48	52,132.20	SSRC	
300433-010	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	7,455.27	-	-	-	7,455.27	-	7,455.27	SSRC	
300450-010	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	37,513.38	3,013.72	-	-	40,527.10	4,052.71	44,579.81	SSRC	
400371-010	AMERICAN SOCIETY OF BIOMECHANICS	VANDECAR-BURDIN, T.	271.88	-	-	-	271.88	149.53	421.41	SSRC	
500327-010	CLARK NEXSEN	VANDECAR-BURDIN, T.	846.20	395.00	-	149.80	1,391.00	765.00	2,156.00	SSRC	
200221-020	* CITY OF SUFFOLK	VANDECAR-BURDIN, T.	7,564.46	204.25	-	-	7,768.71	2,019.87	9,788.57	SSRC	
200248-010	* VIRGINIA OFFICE OF THE ATTORNEY GENERAL	VANDECAR-BURDIN, T.	10,440.02	376.14	-	-	10,816.16	2,812.20	13,628.36	SSRC	
300346-010	* OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	-	1.45	-	-	1.45	-	1.45	SSRC	
300356-020	* OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	3,885.05	2,660.87	-	-	6,545.92	523.68	7,069.59	SSRC	
300356-030	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	-	-	-	-	-	-	-	SSRC	
300432-010	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	18,301.26	3,249.53	-	-	21,550.79	1,077.56	22,628.35	SSRC	
300439-010	UNIVERSITY OF RICHMOND	VANDECAR-BURDIN, T.	13,758.93	2,200.16	-	-	15,959.09	-	15,959.09	SSRC	
			149,386.52	32,880.19	-	6,978.01	189,244.72	19,517.19	-	208,761.91	10.31%
TOTAL COLLEGE OF ARTS AND LETTERS			\$ 510,852.67	\$ 128,478.95	\$ -	\$ 436,271.28	\$ 1,075,602.90	\$ 166,628.59	\$ -	\$ 1,242,231.50	15.49%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS			
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
STROME COLLEGE OF BUSINESS												
Economics												
400337-010	REINVENT HAMPTON ROADS	FILER, L.	23,499.84	50,956.38	-	19,953.37	94,409.59	-	94,409.59	TRAD		
300408-010	OLD DOMINION UNIVERSITY	TALLEY, W.	8,950.93	1,730.00	-	-	10,680.93	5,874.51	16,555.44	TRAD		
300305-010	* UNIVERSITY OF VIRGINIA	TALLEY, W.	7,879.11	-	-	-	7,879.11	4,175.93	12,055.03	TRAD		
300305-011	* UNIVERSITY OF VIRGINIA	TALLEY, W.	87.39	-	-	-	87.39	46.31	133.70	TRAD		
			40,417.26	52,686.38	-	19,953.37	113,057.01	10,096.75	-	123,153.76	8.93%	
Information Systems / Decision Sciences												
100242-010	* NATIONAL SCIENCE FOUNDATION	HE, W.	2,898.89	3,303.07	-	899.98	7,101.94	3,287.04	10,388.97	TRAD		
100621-010	* NATIONAL SCIENCE FOUNDATION	HE, W.	7,370.22	2,395.27	-	-	9,765.48	5,371.02	15,136.50	TRAD		
100673-010	* NATIONAL SCIENCE FOUNDATION	HE, W.	4,141.64	1,124.19	-	-	5,265.83	2,896.21	8,162.04	TRAD		
100242-010	* NATIONAL SCIENCE FOUNDATION	LI, L.	2,898.89	3,303.07	-	899.98	7,101.94	3,287.04	10,388.97	TRAD		
300305-010	* UNIVERSITY OF VIRGINIA	NG, M.	7,879.11	-	-	-	7,879.11	4,175.93	12,055.03	TRAD		
300305-011	* UNIVERSITY OF VIRGINIA	NG, M.	87.39	-	-	-	87.39	46.31	133.70	TRAD		
100242-010	* NATIONAL SCIENCE FOUNDATION	XU, L.	2,898.89	3,303.07	-	899.98	7,101.94	3,287.04	10,388.97	TRAD		
100621-010	* NATIONAL SCIENCE FOUNDATION	XU, L.	9,945.55	3,239.71	-	-	13,185.26	7,251.90	20,437.15	TRAD		
100673-010	* NATIONAL SCIENCE FOUNDATION	XU, L.	4,141.64	1,124.19	-	-	5,265.83	2,896.21	8,162.04	TRAD		
			42,262.21	17,792.56	-	2,699.93	62,754.70	32,498.68	-	95,253.38	51.79%	
Information Systems & Decision Sciences - CYBERSECURITY												
100527-016	* NASA GODDARD SPACEFLIGHT CENTER	HE, W.	3,602.25	-	-	1,514.44	5,116.69	-	5,116.69	CYBER		
100621-010	* NATIONAL SCIENCE FOUNDATION	HE, W.	2,575.34	844.44	-	-	3,419.78	1,880.88	5,300.66	CYBER		
100648-010	* NATIONAL SCIENCE FOUNDATION	HE, W.	1,500.79	1,995.81	-	20,190.04	23,686.64	1,923.13	25,609.76	CYBER		
100706-010	* NATIONAL SECURITY AGENCY	HE, W.	588.17	1,136.40	-	-	1,724.57	948.51	2,673.08	CYBER		
100709-010	* NATIONAL SCIENCE FOUNDATION	HE, W.	1,191.65	330.00	-	-	1,521.64	836.90	2,358.55	CYBER		
500311-010	WISE CASE TECHNOLOGIES, LLC	WU, H.	12,972.68	3,274.00	-	-	16,246.68	8,935.68	25,182.36	CYBER		
			22,430.87	7,580.64	-	21,704.48	51,715.99	14,525.10	-	66,241.09	28.09%	
Marketing												
300359-010	* DUKE UNIVERSITY	TANG, C.	454.93	-	-	-	454.93	113.73	568.67	TRAD		
300418-010	* DUKE UNIVERSITY	TANG, C.	4,133.99	6,418.82	-	-	10,552.81	2,638.21	13,191.02	TRAD		
			4,588.93	6,418.82	-	-	11,007.74	2,751.94	-	13,759.68	25.00%	
Public Service												
200246-010	* CITY OF VIRGINIA BEACH	NICULA, J.	4,735.34	101.22	-	-	4,836.56	1,257.51	6,094.06	TRAD		
200246-010	* CITY OF VIRGINIA BEACH	YUSUF, J.	4,735.34	101.22	-	-	4,836.56	1,257.51	6,094.06	TRAD		
300366-010	* UNIVERSITY OF NORTH CAROLINA	YUSUF, J.	18,233.53	3,754.41	-	-	21,987.95	12,093.37	34,081.32	TRAD		
			27,704.20	3,956.85	-	-	31,661.06	14,608.38	-	46,269.44	46.14%	
TOTAL STROME COLLEGE OF BUSINESS			\$ 137,403.47	\$ 88,435.25	\$ -	\$ 44,357.77	\$ 270,196.50	\$ 74,480.85	\$ -	\$ 344,677.35	27.57%	

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS			
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
DARDEN COLLEGE OF EDUCATION AND PROFESSIONAL STUDIES												
Dean's Office												
300360-810	OLD DOMINION UNIVERSITY	BRAY, J.	-	5,814.35	-	-	5,814.35	-	-	5,814.35	TRAD	
300360-010	* OLD DOMINION UNIVERSITY	BRAY, J.	-	-	-	(161.62)	(161.62)	-	-	(161.62)	TRAD	
300360-020	* OLD DOMINION UNIVERSITY	BRAY, J.	11,674.08	1,872.50	-	121,669.86	135,216.44	-	-	135,216.44	TRAD	
300360-030	* OLD DOMINION UNIVERSITY	BRAY, J.	2,369.84	989.01	-	18,909.40	22,268.26	-	-	22,268.26	TRAD	
300360-020	* OLD DOMINION UNIVERSITY	DICKINSON, G.	5,837.04	936.25	-	60,834.93	67,608.22	-	-	67,608.22	TRAD	
300360-030	* OLD DOMINION UNIVERSITY	DICKINSON, G.	2,369.84	989.01	-	18,909.40	22,268.26	-	-	22,268.26	TRAD	
300360-010	* OLD DOMINION UNIVERSITY	SHAEFFER, M.	-	-	-	(80.81)	(80.81)	-	-	(80.81)	TRAD	
300360-020	* OLD DOMINION UNIVERSITY	SHAEFFER, M.	5,837.04	936.25	-	60,834.93	67,608.22	-	-	67,608.22	TRAD	
300360-030	* OLD DOMINION UNIVERSITY	SHAEFFER, M.	7,109.53	2,967.04	-	56,728.20	66,804.77	-	-	66,804.77	TRAD	
300360-030	* OLD DOMINION UNIVERSITY	UNDERWOOD, J.	11,849.21	4,945.07	-	94,547.01	111,341.28	-	-	111,341.28	TRAD	
			47,046.58	19,449.48	-	432,191.31	498,687.37	-	-	498,687.37	0.00%	
Center for Educational Partnerships												
100358-010	* U.S. DEPARTMENT OF EDUCATION	ARNOLD, P.	714.33	-	-	73,825.94	74,540.27	378.60	-	74,918.87	TRAD	
200210-010	* NEWPORT NEWS PUBLIC SCHOOLS	ARNOLD, P.	3,923.73	-	-	-	3,923.73	-	-	3,923.73	TRAD	
200213-010	* CHESAPEAKE PUBLIC SCHOOLS	ARNOLD, P.	2,299.77	-	-	-	2,299.77	-	-	2,299.77	TRAD	
100358-010	* U.S. DEPARTMENT OF EDUCATION	CHAPPELL, S.	357.17	-	-	36,912.97	37,270.14	189.30	-	37,459.43	TRAD	
200210-010	* NEWPORT NEWS PUBLIC SCHOOLS	CHAPPELL, S.	4,771.74	-	-	-	4,771.74	-	-	4,771.74	TRAD	
200213-010	* CHESAPEAKE PUBLIC SCHOOLS	CHAPPELL, S.	3,388.63	-	-	-	3,388.63	-	-	3,388.63	TRAD	
200216-010	* VIRGINIA BEACH CITY PUBLIC SCHOOLS	CHAPPELL, S.	4,427.19	-	-	-	4,427.19	-	-	4,427.19	TRAD	
200216-010	VIRGINIA BEACH CITY PUBLIC SCHOOLS	CHAPPELL, S.	16,133.57	-	-	-	16,133.57	-	-	16,133.57	TRAD	
100244-010	NATIONAL SCIENCE FOUNDATION	GARNER, J.	1,170.82	2,502.00	-	-	3,672.82	954.93	-	4,627.75	TRAD	
100477-010	* NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	GARNER, J.	75.65	-	-	8,975.88	9,051.53	18.91	-	9,070.44	TRAD	
200183-030	OLD DOMINION UNIVERSITY	GARNER, J.	6,455.64	8,348.97	-	15,296.00	30,100.61	1,184.37	-	31,284.98	TRAD	
200183-040	* OLD DOMINION UNIVERSITY	GARNER, J.	16,128.39	1,837.29	-	1,116.50	19,082.18	1,437.25	-	20,519.43	TRAD	
200188-030	* OLD DOMINION UNIVERSITY	GARNER, J.	1,170.13	6,979.57	-	7,811.04	15,960.74	651.98	-	16,612.71	TRAD	
200188-040	* OLD DOMINION UNIVERSITY	GARNER, J.	9,969.83	281.42	-	3,530.18	13,781.43	820.10	-	14,601.53	TRAD	
200210-010	* NEWPORT NEWS PUBLIC SCHOOLS	GARNER, J.	3,986.99	-	-	-	3,986.99	-	-	3,986.99	TRAD	
200213-010	* CHESAPEAKE PUBLIC SCHOOLS	GARNER, J.	2,928.67	-	-	-	2,928.67	-	-	2,928.67	TRAD	
200225-010	PRINCE WILLIAM COUNTY PUBLIC SCHOOLS	GARNER, J.	6,373.55	-	-	-	6,373.55	3,505.45	-	9,879.00	TRAD	
200216-010	* VIRGINIA BEACH CITY PUBLIC SCHOOLS	GARNER, J.	4,427.19	-	-	-	4,427.19	-	-	4,427.19	TRAD	
200240-010	NORFOLK PUBLIC SCHOOLS	LONEY, M.	-	2,000.00	-	-	2,000.00	1,100.12	-	3,100.12	TRAD	
200260-010	PORTSMOUTH PUBLIC SCHOOLS	LONEY, M.	9,333.51	-	-	850.49	10,184.00	2,648.00	-	12,832.00	TRAD	
200183-040	* OLD DOMINION UNIVERSITY	LONEY, M.	5,766.13	546.41	-	478.50	6,791.04	505.00	-	7,296.04	TRAD	
200188-030	* OLD DOMINION UNIVERSITY	LONEY, M.	702.08	3,999.02	-	4,686.62	9,387.72	376.09	-	9,763.81	TRAD	
200188-040	* OLD DOMINION UNIVERSITY	LONEY, M.	40,853.73	1,219.48	-	14,947.29	57,020.50	3,365.85	-	60,386.35	TRAD	
100358-010	* U.S. DEPARTMENT OF EDUCATION	NUNNERY, J.	1,785.84	-	-	184,564.84	186,350.68	946.50	-	187,297.17	TRAD	
200188-030	* OLD DOMINION UNIVERSITY	NUNNERY, J.	468.05	2,812.05	-	3,124.42	6,404.52	262.41	-	6,666.92	TRAD	
200210-010	* NEWPORT NEWS PUBLIC SCHOOLS	NUNNERY, J.	784.75	-	-	-	784.75	-	-	784.75	TRAD	
200213-010	* CHESAPEAKE PUBLIC SCHOOLS	NUNNERY, J.	459.95	-	-	-	459.95	-	-	459.95	TRAD	
200188-030	* OLD DOMINION UNIVERSITY	SANZO, K.	-	(16.85)	-	-	(16.85)	(1.35)	-	(18.20)	TRAD	
200188-040	* OLD DOMINION UNIVERSITY	SANZO, K.	974.41	93.81	-	826.55	1,894.77	85.46	-	1,980.22	TRAD	
			149,831.42	30,603.17	-	356,947.21	537,381.80	18,428.95	-	555,810.75	3.43%	

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT
 (MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Communication Disorders and Special Education											
300410-010	* GEORGE MASON UNIVERSITY	BOBZIEN, J.	3,915.63	-	-	1,952.80	5,868.43	313.25	-	6,181.68	TRAD
100559-010	* U.S. DEPARTMENT OF EDUCATION	BOBZIEN, J.	10,602.93	-	-	72,272.31	82,875.24	848.24	-	83,723.48	TRAD
300458-010	* GEORGE MASON UNIVERSITY	BOBZIEN, J.	8,182.27	92.70	-	1,108.41	9,383.38	662.00	-	10,045.37	TRAD
300338-010	* OLD DOMINION UNIVERSITY	GABLE, R.	-	9,982.25	-	2,957.55	12,939.79	798.58	-	13,738.37	TRAD
300338-020	* OLD DOMINION UNIVERSITY	GABLE, R.	-	19,621.18	-	-	19,621.18	1,569.70	-	21,190.88	TRAD
300339-010	* OLD DOMINION UNIVERSITY	GABLE, R.	-	6,516.00	-	-	6,516.00	521.28	-	7,037.27	TRAD
300351-010	OLD DOMINION UNIVERSITY	GABLE, R.	-	-	-	0.01	0.01	-	-	0.01	TRAD
300356-020	* OLD DOMINION UNIVERSITY	GABLE, R.	3,885.05	2,660.87	-	-	6,545.92	523.68	-	7,069.59	TRAD
300410-010	* GEORGE MASON UNIVERSITY	GABLE, R.	3,915.63	-	-	1,952.80	5,868.43	313.25	-	6,181.68	TRAD
300425-010	OLD DOMINION UNIVERSITY	GABLE, R.	-	169,842.84	-	-	169,842.84	13,587.43	-	183,430.27	TRAD
300449-010	OLD DOMINION UNIVERSITY	GABLE, R.	141,847.26	-	-	-	141,847.26	11,347.78	-	153,195.04	TRAD
300452-010	* OLD DOMINION UNIVERSITY	GABLE, R.	7,922.91	-	-	-	7,922.91	633.83	-	8,556.74	TRAD
300456-010	* OLD DOMINION UNIVERSITY	GABLE, R.	166,898.29	9.08	-	-	166,907.37	13,352.59	-	180,259.96	TRAD
300456-020	* OLD DOMINION UNIVERSITY	GABLE, R.	101,108.21	13.03	-	-	101,121.24	8,089.70	-	109,210.94	TRAD
300346-020	* OLD DOMINION UNIVERSITY	GABLE, R.	-	-	-	0.39	0.39	-	-	0.39	TRAD
300346-030	* OLD DOMINION UNIVERSITY	GABLE, R.	8,417.96	1,265.57	-	25,740.00	35,423.53	-	-	35,423.53	TRAD
300356-030	* OLD DOMINION UNIVERSITY	GABLE, R.	18,131.43	238.10	-	-	18,369.53	1,469.57	-	19,839.10	TRAD
300393-010	* OLD DOMINION UNIVERSITY	GABLE, R.	131,216.66	125,219.42	-	-	256,436.08	20,514.89	-	276,950.97	TRAD
300404-010	* OLD DOMINION UNIVERSITY	GABLE, R.	104,174.22	12,360.19	-	-	116,534.41	9,322.76	-	125,857.17	TRAD
300405-010	* OLD DOMINION UNIVERSITY	GABLE, R.	194,527.03	77,667.99	-	13,197.94	285,392.95	21,775.60	-	307,168.55	TRAD
300405-020	* OLD DOMINION UNIVERSITY	GABLE, R.	123,562.36	23,661.14	-	-	147,223.50	11,777.89	-	159,001.38	TRAD
300407-010	* OLD DOMINION UNIVERSITY	GABLE, R.	-	43.01	-	-	43.01	3.38	-	46.38	TRAD
300417-010	* GEORGE MASON UNIVERSITY	GABLE, R.	4,216.68	765.10	-	3,944.24	8,926.01	398.54	-	9,324.56	TRAD
300457-010	* GEORGE MASON UNIVERSITY	GABLE, R.	4,297.10	50.31	-	617.01	4,964.41	347.79	-	5,312.20	TRAD
300458-010	* GEORGE MASON UNIVERSITY	GABLE, R.	8,182.27	92.70	-	1,108.41	9,383.38	662.00	-	10,045.37	TRAD
100559-010	* U.S. DEPARTMENT OF EDUCATION	GEAR, S.	10,924.23	-	-	74,462.38	85,386.61	873.94	-	86,260.55	TRAD
100601-010	* U.S. DEPARTMENT OF EDUCATION	GEAR, S.	63,674.56	4,921.15	-	2,238.00	70,833.71	17,834.89	-	88,668.59	TRAD
100559-010	* U.S. DEPARTMENT OF EDUCATION	HESTER, P.	10,602.93	-	-	72,272.31	82,875.24	848.24	-	83,723.48	TRAD
100601-010	* U.S. DEPARTMENT OF EDUCATION	HESTER, P.	127,349.11	9,842.30	-	4,476.00	141,667.41	35,669.77	-	177,337.18	TRAD
300396-010	* OLD DOMINION UNIVERSITY	JUDGE, S.	45,340.70	28,244.06	-	26,267.23	99,852.00	5,886.78	-	105,738.78	TRAD
300346-020	* OLD DOMINION UNIVERSITY	MAYDOSZ, A.	-	-	-	0.39	0.39	-	-	0.39	TRAD
300346-030	* OLD DOMINION UNIVERSITY	MAYDOSZ, A.	8,417.96	1,265.57	-	25,740.00	35,423.53	-	-	35,423.53	TRAD
300356-030	* OLD DOMINION UNIVERSITY	MAYDOSZ, A.	18,131.43	238.10	-	-	18,369.53	1,469.57	-	19,839.10	TRAD
300407-010	* OLD DOMINION UNIVERSITY	MAYDOSZ, A.	-	43.01	-	-	43.01	3.38	-	46.38	TRAD
300410-010	* GEORGE MASON UNIVERSITY	MAYDOSZ, A.	3,915.63	-	-	1,952.80	5,868.43	313.25	-	6,181.68	TRAD
300417-010	* GEORGE MASON UNIVERSITY	MAYDOSZ, A.	4,216.68	765.10	-	3,944.24	8,926.01	398.54	-	9,324.56	TRAD
300452-010	* OLD DOMINION UNIVERSITY	MAYDOSZ, A.	7,922.91	-	-	-	7,922.91	633.83	-	8,556.74	TRAD
300457-010	* GEORGE MASON UNIVERSITY	MAYDOSZ, A.	4,297.10	50.31	-	617.01	4,964.41	347.79	-	5,312.20	TRAD

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
300458-010	* GEORGE MASON UNIVERSITY	MAYDOSZ, A.	8,182.27	92.70	-	1,108.41	9,383.38	662.00		10,045.37	TRAD
100478-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	RICHELS, C.	743.41	(98.45)	-	1,426.55	2,071.51	51.60		2,123.10	TRAD
300338-010	* OLD DOMINION UNIVERSITY	TONELSON, S.	-	9,982.25	-	2,957.55	12,939.79	798.58		13,738.37	TRAD
300338-020	* OLD DOMINION UNIVERSITY	TONELSON, S.	-	19,621.18	-	-	19,621.18	1,569.70		21,190.88	TRAD
300339-010	* OLD DOMINION UNIVERSITY	TONELSON, S.	-	6,516.00	-	-	6,516.00	521.28		7,037.27	TRAD
300346-020	* OLD DOMINION UNIVERSITY	TONELSON, S.	-	-	-	0.40	0.40	-		0.40	TRAD
300346-030	* OLD DOMINION UNIVERSITY	TONELSON, S.	8,673.05	1,303.92	-	26,520.00	36,496.97	-		36,496.97	TRAD
300356-020	* OLD DOMINION UNIVERSITY	TONELSON, S.	7,770.11	5,321.73	-	-	13,091.84	1,047.35		14,139.19	TRAD
300356-030	* OLD DOMINION UNIVERSITY	TONELSON, S.	18,680.86	245.32	-	-	18,926.19	1,514.10		20,440.28	TRAD
300393-010	* OLD DOMINION UNIVERSITY	TONELSON, S.	131,216.66	125,219.42	-	-	256,436.08	20,514.89		276,950.97	TRAD
300404-010	* OLD DOMINION UNIVERSITY	TONELSON, S.	104,174.22	12,360.19	-	-	116,534.41	9,322.76		125,857.17	TRAD
300405-010	* OLD DOMINION UNIVERSITY	TONELSON, S.	194,527.03	77,667.99	-	13,197.94	285,392.95	21,775.60		307,168.55	TRAD
300405-020	* OLD DOMINION UNIVERSITY	TONELSON, S.	123,562.36	23,661.14	-	-	147,223.50	11,777.89		159,001.38	TRAD
300407-010	* OLD DOMINION UNIVERSITY	TONELSON, S.	-	44.31	-	-	44.31	3.48		47.79	TRAD
300410-010	* GEORGE MASON UNIVERSITY	TONELSON, S.	3,915.63	-	-	1,952.80	5,868.43	313.25		6,181.68	TRAD
300417-010	* GEORGE MASON UNIVERSITY	TONELSON, S.	4,344.46	788.28	-	4,063.77	9,196.50	410.62		9,607.12	TRAD
300456-010	* OLD DOMINION UNIVERSITY	TONELSON, S.	166,898.29	9.08	-	-	166,907.37	13,352.59		180,259.96	TRAD
300456-020	* OLD DOMINION UNIVERSITY	TONELSON, S.	101,108.21	13.03	-	-	101,121.24	8,089.70		109,210.94	TRAD
300452-010	* OLD DOMINION UNIVERSITY	TONELSON, S.	8,163.00	-	-	-	8,163.00	653.04		8,816.04	TRAD
300457-010	* GEORGE MASON UNIVERSITY	TONELSON, S.	4,427.31	51.83	-	635.71	5,114.85	358.33		5,473.18	TRAD
300458-010	* GEORGE MASON UNIVERSITY	TONELSON, S.	8,182.27	92.70	-	1,108.41	9,383.38	662.00		10,045.37	TRAD
100527-019	NASA GODDARD SPACEFLIGHT CENTER	WATSON, S.	751.28	6,009.80	-	-	6,761.08	-		6,761.08	TRAD
300396-010	* OLD DOMINION UNIVERSITY	WATSON, S.	46,714.66	29,099.94	-	27,063.21	102,877.82	6,065.17		108,942.98	TRAD
100673-010	* NATIONAL SCIENCE FOUNDATION	WATSON, S.	4,141.64	1,124.19	-	-	5,265.83	2,896.21		8,162.04	TRAD
			2,295,973.83	814,597.55	-	416,856.97	3,527,428.35	285,473.76	-	3,812,902.11	8.09%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Counseling and Human Services											
100478-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HOQUEE, K.	743.41	(98.45)	-	1,426.55	2,071.51	51.60		2,123.10	TRAD
100635-010	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HOQUEE, K.	14,640.65	1,739.84	-	25,495.20	41,875.69	1,310.44		43,186.13	TRAD
100689-010	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HOQUEE, K.	23,606.17	1,735.30	-	36,630.88	61,972.36	2,027.32		63,999.68	TRAD
100689-010	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	KEMER, G.	13,219.46	971.77	-	20,513.29	34,704.52	1,135.30		35,839.82	TRAD
400280-010	FORKIDS	MILLIKEN, T.	(4.69)	-	-	-	(4.69)	-		(4.69)	TRAD
100635-010	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	MOE, J.	17,894.13	2,126.47	-	31,160.80	51,181.40	1,601.64		52,783.04	TRAD
100689-010	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	MOE, J.	22,661.93	1,665.89	-	35,165.65	59,493.46	1,946.22		61,439.69	TRAD
300349-011	* EASTERN VIRGINIA MEDICAL SCHOOL	REHFUSS, M.	3,000.28	-	-	-	3,000.28	240.02		3,240.30	TRAD
300349-010	EASTERN VIRGINIA MEDICAL SCHOOL	REHFUSS, M.	26,048.68	-	-	9,228.00	35,276.68	2,083.92		37,360.60	TRAD
			121,810.01	8,140.82	-	159,620.37	289,571.20	10,396.46	-	299,967.66	3.59%
Educational Foundations and Leadership											
100358-010	* U.S. DEPARTMENT OF EDUCATION	BOL, L.	357.17	-	-	36,912.97	37,270.14	189.30		37,459.43	TRAD
200188-030	* OLD DOMINION UNIVERSITY	BOL, L.	234.03	1,406.02	-	1,562.21	3,202.26	131.20		3,333.46	TRAD
200210-010	* NEWPORT NEWS PUBLIC SCHOOLS	ESQUEDA, M.	784.75	-	-	-	784.75	-		784.75	TRAD
200213-010	* CHESAPEAKE PUBLIC SCHOOLS	ESQUEDA, M.	459.95	-	-	-	459.95	-		459.95	TRAD
300294-020	TEMPLE UNIVERSITY	PEREZ, A.	33,378.64	1,846.56	-	7,701.00	42,926.20	18,669.37		61,595.57	TRAD
300402-010	MICHIGAN STATE UNIVERSITY	PEREZ, A.	53,106.16	6,664.11	-	19,041.00	78,811.27	32,873.64		111,684.91	TRAD
100673-010	* NATIONAL SCIENCE FOUNDATION	PRIBESH, S.	4,141.64	1,124.19	-	-	5,265.83	2,896.21		8,162.04	TRAD
100709-010	* NATIONAL SCIENCE FOUNDATION	PRIBESH, S.	1,191.65	330.00	-	-	1,521.64	836.90		2,358.55	TRAD
200188-030	* OLD DOMINION UNIVERSITY	PRIBESH, S.	234.03	1,406.02	-	1,562.21	3,202.26	131.20		3,333.46	TRAD
			93,888.01	12,776.90	-	66,779.38	173,444.29	55,727.83	-	229,172.12	32.13%
Human Movement Sciences											
400318-010	* THE STANTON FOUNDATION	GOMEZ, E.	5,359.93	264.42	-	1,502.27	7,126.61	-		7,126.61	TRAD
400321-010	* CHRISTOPHER & DANA REEVES FOUNDATION	HAEGELE, J.	-	-	-	267.00	267.00	26.50		293.50	TRAD
400338-010	SOCIETY OF HEALTH AND PHYSICAL EDUCATORS (SHAPE)	HAEGELE, J.	-	3,225.74	-	-	3,225.74	-		3,225.74	TRAD
500281-010	* FOCUSED FITNESS LLC	HAEGELE, J.	-	-	-	3,020.72	3,020.72	-		3,020.72	TRAD
400372-010	USA TRIATHLON	HILL, E.	-	999.95	-	-	999.95	-		999.95	TRAD
400321-010	* CHRISTOPHER & DANA REEVES FOUNDATION	KENNEDY, E.	-	-	-	267.00	267.00	26.50		293.50	TRAD
400318-010	* THE STANTON FOUNDATION	USHER, L.	1,786.64	88.14	-	500.76	2,375.54	-		2,375.54	TRAD
300454-010	EASTERN VIRGINIA MEDICAL SCHOOL	WILSON, P.	8,198.62	1,511.00	-	-	9,709.62	-		9,709.62	TRAD
500281-010	* FOCUSED FITNESS LLC	ZHU, X.	-	-	-	3,020.72	3,020.72	-		3,020.72	TRAD
			15,345.19	6,089.25	-	8,578.46	30,012.90	53.00	-	30,065.90	0.18%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
STEM Education and Professional Studies											
100599-010	* OFFICE OF NAVAL RESEARCH	ARCAUTE, K.	12,565.48	2,405.61	-	-	14,971.09	8,523.61		23,494.70	TRAD
100702-010	* NATIONAL SCIENCE FOUNDATION	ARCAUTE, K.	2,925.84	848.28	-	-	3,774.12	2,075.77		5,849.89	TRAD
300395-010	UNIVERSITY OF MARYLAND	DISCALA, J.	9,363.89	-	-	-	9,363.89	5,150.14		14,514.03	TRAD
300143-040	* OLD DOMINION UNIVERSITY	ENDERSON, M.	53,800.72	9,815.72	-	1,381.25	64,997.69	3,180.82		68,178.51	TRAD
100358-010	* U.S. DEPARTMENT OF EDUCATION	GRANT, M.	357.17	-	-	36,912.97	37,270.14	189.30		37,459.43	TRAD
100477-010	* NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	KATSIOLoudis, P.	605.19	-	-	71,807.02	72,412.21	151.30		72,563.50	TRAD
300401-010	OLD DOMINION UNIVERSITY	REED, P.	-	13,416.00	-	-	13,416.00	1,073.28		14,489.28	TRAD
300030-012	* UNIVERSITY OF VIRGINIA	TOMOVIC, C.	18,021.99	3,092.01	-	3,438.52	24,552.52	-		24,552.52	TRAD
300423-010	* OLD DOMINION UNIVERSITY	TOMOVIC, C.	8,284.72	589.14	-	7,433.07	16,306.93	-		16,306.93	TRAD
100609-010	NATIONAL SCIENCE FOUNDATION	WATSON-PAPELIS, G.	4,912.10	(409.40)	-	-	4,502.70	1,170.71		5,673.41	TRAD
			110,837.10	29,757.36	-	120,972.82	261,567.28	21,514.92	-	283,082.20	8.23%
Teaching and Learning											
300340-010	JAMES MADISON UNIVERSITY	CROMPTON, H.	-	4,836.60	-	-	4,836.60	1,257.51		6,094.11	TRAD
100252-010	* NATIONAL SCIENCE FOUNDATION	CROMPTON, H.	6,998.90	1,367.72	-	1,199.69	9,566.31	4,434.31		14,000.62	TRAD
100498-010	* INSTITUTE OF MUSEUM AND LIBRARY SERVICES	DICKINSON, G.	2,114.42	3,144.55	-	9,919.10	15,178.07	420.72		15,598.79	TRAD
300360-010	* OLD DOMINION UNIVERSITY	DICKINSON, G.	-	-	-	(80.81)	(80.81)	-		(80.81)	TRAD
300055-010	OLD DOMINION UNIVERSITY	ECKHOFF, A.	5,941.13	5,428.00	-	-	11,369.13	909.54		12,278.67	TRAD
100498-010	* INSTITUTE OF MUSEUM AND LIBRARY SERVICES	HOWARD, J.	2,114.42	3,144.55	-	9,919.10	15,178.07	420.72		15,598.79	TRAD
100489-010	NATIONAL SCIENCE FOUNDATION	KIDD, J.	31,658.46	3,436.27	-	-	35,094.73	18,600.23		53,694.96	TRAD
400322-010	NATIONAL WRITING PROJECT CORPORATION	LEE, L.	363.42	7,158.00	-	11,760.00	19,281.42	601.71		19,883.13	TRAD
400323-010	NATIONAL WRITING PROJECT CORPORATION	LEE, L.	45.43	1,000.00	-	-	1,045.43	83.63		1,129.06	TRAD
100633-010	NATIONAL ENDOWMENT FOR THE HUMANITIES	SUH, Y.	12,735.45	34,462.39	-	95,344.98	142,542.82	12,271.44		154,814.26	TRAD
300453-010	WAYNESBURG UNIVERSITY	SUH, Y.	-	4,693.34	-	11,148.48	15,841.82	-		15,841.82	TRAD
			61,971.63	68,671.42	-	139,210.55	269,853.60	38,999.80	-	308,853.39	14.45%
TOTAL DARDEN COLLEGE OF EDUCATION AND PROFESSIONAL STUDIES			\$ 2,896,703.76	\$ 990,085.95	\$ -	\$ 1,701,157.07	\$ 5,587,946.78	\$ 430,594.72	\$ -	\$ 6,018,541.50	7.71%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS			
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
BATTEN COLLEGE OF ENGINEERING AND TECHNOLOGY												
Dean's Office												
100638-010	NATIONAL SCIENCE FOUNDATION	ADAMS, S.	3,140.53	12,324.28	-	-	15,464.81	8,505.64		23,970.45	TRAD	
100644-010	NATIONAL SCIENCE FOUNDATION	ADAMS, S.	14,904.94	57,227.23	-	192,811.88	264,944.05	39,672.70		304,616.75	TRAD	
100527-021	NASA GODDARD SPACEFLIGHT CENTER	ANTHONY, B.	37.06	4,328.78	-	1,196.28	5,562.12	-		5,562.12	TRAD	
100538-010	* OFFICE OF NAVAL RESEARCH	DEAN, A.	53,782.64	9,661.72	-	-	63,444.36	29,486.64		92,931.01	TRAD	
100599-010	* OFFICE OF NAVAL RESEARCH	DEAN, A.	25,130.96	4,811.23	-	-	29,942.18	14,152.19		44,094.37	TRAD	
100702-010	* NATIONAL SCIENCE FOUNDATION	DEAN, A.	2,925.84	848.28	-	-	3,774.12	2,075.77		5,849.89	TRAD	
100708-010	* NATIONAL SCIENCE FOUNDATION	DEAN, A.	2,732.61	-	-	-	2,732.61	1,502.93		4,235.54	TRAD	
500343-010	* CACI, INC.--FEDERAL	DEAN, A.	20,391.45	711.85	-	-	21,103.30	11,606.82		32,710.12	TRAD	
100256-010	* NATIONAL SCIENCE FOUNDATION	DHALI, S.	682.90	494.00	-	13,950.00	15,126.89	623.75		15,750.65	TRAD	
100708-010	* NATIONAL SCIENCE FOUNDATION	LANDAETA, R.	1,366.31	-	-	-	1,366.31	751.47		2,117.77	TRAD	
100527-017	NASA GODDARD SPACEFLIGHT CENTER	SARPER, H.	1,404.69	-	-	-	1,404.69	-		1,404.69	TRAD	
			126,499.92	90,407.36	-	207,958.16	424,865.44	108,377.91	-	533,243.35	25.51%	

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT
 (MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Civil and Environmental Engineering											
200226-010	* VA DEPARTMENT OF TRANSPORTATION	CETIN, M.	253.84	-	-	-	253.84	66.00		319.84	TRAD
300305-013	* UNIVERSITY OF VIRGINIA	CETIN, M.	905.44	2,136.65	-	-	3,042.09	1,612.31		4,654.40	TRAD
300305-014	UNIVERSITY OF VIRGINIA	CETIN, M.	25,813.32	-	-	-	25,813.32	13,681.07		39,494.39	TRAD
300305-018	UNIVERSITY OF VIRGINIA	CETIN, M.	15,448.46	-	-	-	15,448.46	8,496.65		23,945.11	TRAD
200253-010	* VA DEPARTMENT OF TRANSPORTATION	CETIN, M.	29,151.66	1,050.40	-	2,195.00	32,397.05	7,852.53		40,249.58	TRAD
300258-010	* UNIVERSITY OF MARYLAND	CETIN, M.	5,555.79	953.61	-	-	6,509.40	3,449.98		9,959.38	TRAD
300305-010	* UNIVERSITY OF VIRGINIA	CETIN, M.	19,697.77	-	-	-	19,697.77	10,439.82		30,137.59	TRAD
300305-011	* UNIVERSITY OF VIRGINIA	CETIN, M.	218.47	-	-	-	218.47	115.79		334.25	TRAD
300305-012	* UNIVERSITY OF VIRGINIA	CETIN, M.	3,310.05	48.17	-	-	3,358.22	1,779.86		5,138.08	TRAD
300305-015	* UNIVERSITY OF VIRGINIA	CETIN, M.	13,269.89	1,081.83	-	-	14,351.72	7,606.41		21,958.14	TRAD
300305-017	* UNIVERSITY OF VIRGINIA	CETIN, M.	7,044.88	-	-	-	7,044.88	3,874.69		10,919.57	TRAD
300305-019	* UNIVERSITY OF VIRGINIA	CETIN, M.	16,112.21	129.62	-	-	16,241.83	8,933.00		25,174.83	TRAD
600197-030	MYONGJI UNIVERSITY	CHAE, Y.	17,512.26	1,915.00	-	211.49	19,638.75	10,801.00		30,439.75	TRAD
600197-040	MYONGJI UNIVERSITY	CHAE, Y.	2,821.39	95.20	-	-	2,916.59	1,604.12		4,520.71	TRAD
100250-010	NATIONAL SCIENCE FOUNDATION	KUMAR, S.	36,473.42	9,462.04	-	-	45,935.46	24,345.81		70,281.27	TRAD
100250-020	NATIONAL SCIENCE FOUNDATION	KUMAR, S.	-	-	-	2,819.12	2,819.12	-		2,819.12	TRAD
100574-010	SANDIA NATIONAL LABORATORIES	KUMAR, S.	22,466.30	311.42	-	-	22,777.72	-		22,777.72	TRAD
100630-020	NATIONAL SCIENCE FOUNDATION	KUMAR, S.	-	-	-	11,657.50	11,657.50	-		11,657.50	TRAD
100696-010	U.S. ENVIRONMENTAL PROTECTION AGENCY	KUMAR, S.	-	4,264.00	-	-	4,264.00	2,345.20		6,609.20	TRAD
500290-020	JMS FOOD SERVICE LLC (SMUCKER'S)	KUMAR, S.	-	105.82	-	124.06	229.88	60.10		289.98	TRAD
500298-010	* FIBERIGHT, LLC	KUMAR, S.	8,372.53	288.04	-	-	8,660.57	4,763.31		13,423.88	TRAD
500319-010	PANCOPIA	KUMAR, S.	325.13	76.95	-	707.89	1,109.97	610.18		1,720.15	TRAD
100593-010	* NATIONAL SCIENCE FOUNDATION	KUMAR, S.	3,738.41	302.62	-	48,711.38	52,752.41	2,222.56		54,974.97	TRAD
100593-020	* NATIONAL SCIENCE FOUNDATION	KUMAR, S.	-	-	-	790.00	790.00	-		790.00	TRAD
100630-010	* NATIONAL SCIENCE FOUNDATION	KUMAR, S.	14,741.28	14,987.03	18,444.88	2,465.40	50,638.59	16,350.58		66,989.17	TRAD
100544-010	NATIONAL SCIENCE FOUNDATION	MA, G.	13,705.41	806.95	-	-	14,512.36	7,691.55		22,203.91	TRAD
400297-010	PADI FOUNDATION	MA, G.	-	-	-	1,808.36	1,808.36	-		1,808.36	TRAD
500302-010	A-ZONE ENVIRONMENTAL SERVICES LLC	MEKKAWY, M.	433.63	-	-	-	433.63	238.50		672.13	TRAD
300376-010	UNIVERSITY OF MEMPHIS	PALETTI, R.	(219.45)	-	-	-	(219.45)	(32.92)		(252.37)	TRAD
200253-010	* VA DEPARTMENT OF TRANSPORTATION	PALETTI, R.	17,490.99	630.24	-	1,317.00	19,438.23	4,711.52		24,149.75	TRAD
300305-010	* UNIVERSITY OF VIRGINIA	PALETTI, R.	3,939.55	-	-	-	3,939.55	2,087.96		6,027.52	TRAD
300305-011	* UNIVERSITY OF VIRGINIA	PALETTI, R.	43.69	-	-	-	43.69	23.16		66.85	TRAD
300305-013	* UNIVERSITY OF VIRGINIA	PALETTI, R.	603.63	1,424.43	-	-	2,028.06	1,074.87		3,102.93	TRAD
300305-015	* UNIVERSITY OF VIRGINIA	PALETTI, R.	19,904.84	1,622.75	-	-	21,527.59	11,409.62		32,937.20	TRAD
300305-016	UNIVERSITY OF VIRGINIA	PALETTI, R.	21,770.62	-	-	-	21,770.62	11,973.82		33,744.44	TRAD
500347-010	DOMINION ENTERPRISES	SCHAFFRAN, G.	15,133.25	-	-	-	15,133.25	3,934.65		19,067.90	TRAD
100580-010	NATIONAL SCIENCE FOUNDATION	STUART, B.	23,642.38	392.77	-	174,556.87	198,592.02	13,219.32		211,811.34	TRAD
100630-010	* NATIONAL SCIENCE FOUNDATION	STUART, B.	7,370.64	7,493.51	9,222.44	1,232.70	25,319.30	8,175.29		33,494.58	TRAD
500298-010	* FIBERIGHT, LLC	STUART, B.	2,093.13	72.01	-	-	2,165.14	1,190.83		3,355.97	TRAD
300403-010	VA INSTITUTE OF MARINE SCIENCE (VIMS)	TAHVILDARI, N.	-	2,159.36	-	-	2,159.36	-		2,159.36	TRAD
300403-020	VA INSTITUTE OF MARINE SCIENCE (VIMS)	TAHVILDARI, N.	-	5,000.00	-	-	5,000.00	-		5,000.00	TRAD
300435-010	VA INSTITUTE OF MARINE SCIENCE (VIMS)	TAHVILDARI, N.	20,086.99	14,913.37	-	562.00	35,562.36	-		35,562.36	TRAD
200226-010	* VA DEPARTMENT OF TRANSPORTATION	TAHVILDARI, N.	2,284.55	-	-	-	2,284.55	593.98		2,878.53	TRAD
300305-017	* UNIVERSITY OF VIRGINIA	TAHVILDARI, N.	24,977.31	-	-	-	24,977.31	13,737.52		38,714.83	TRAD
100653-010	NATIONAL SCIENCE FOUNDATION	WANG, X.	-	835.92	-	13,453.95	14,289.87	217.35		14,507.22	TRAD
300378-010	OLD DOMINION UNIVERSITY	WANG, X.	-	-	-	(0.45)	(0.45)	-		(0.45)	TRAD
300448-010	VA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	WANG, X.	11,267.08	2,471.17	-	2,122.00	15,860.25	3,571.94		19,432.19	TRAD
600194-010	BEIJING J&C REAL ESTATE INVESTMENT CORP, LTD	WANG, X.	1,714.46	15.00	-	299.10	2,028.56	1,074.54		3,103.10	TRAD
			429,475.19	75,045.88	27,667.32	265,033.36	797,221.75	215,904.45	-	1,013,126.21	27.08%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT
(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST					PROJECT IDC AND FEES		TOTAL COSTS	
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Electrical and Computer Engineering											
300311-010	ROCHESTER INSTITUTE OF TECHNOLOGY	BAILEY, C.	15,989.29	922.49	-	-	16,911.78	8,963.24		25,875.02	TRAD
300431-010	UNIVERSITY OF VIRGINIA	BELFORE, L.	-	5,468.03	6,509.50	-	11,977.53	-		11,977.53	TRAD
100256-010	* NATIONAL SCIENCE FOUNDATION	CHEN, C.	455.26	329.33	-	9,300.00	10,084.60	415.84		10,500.43	TRAD
400271-003	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	GONZALEZ, O.	22,441.79	1,521.34	-	6,649.00	30,612.13	6,230.42		36,842.55	TRAD
400345-010	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	GONZALEZ, O.	19,668.59	-	-	-	19,668.59	5,113.83		24,782.42	TRAD
100458-010	* NATIONAL SCIENCE FOUNDATION	HAO, Z.	281.22	(159.81)	-	-	121.41	64.34		185.75	TRAD
100238-010	NATIONAL SCIENCE FOUNDATION	IFTEKHARUDDIN, K.	-	(950.81)	-	7.45	(943.36)	(498.99)		(1,442.35)	TRAD
100339-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	IFTEKHARUDDIN, K.	(357.24)	-	-	-	(357.24)	(189.34)		(546.58)	TRAD
100594-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	IFTEKHARUDDIN, K.	109,931.49	52,500.81	25,000.00	19,645.99	207,078.29	89,337.77		296,416.06	TRAD
100659-010	ARMY CONTRACTING COMMAND	IFTEKHARUDDIN, K.	20,055.73	25,000.00	-	37,894.40	82,950.13	24,780.64		107,730.77	TRAD
300305-012	* UNIVERSITY OF VIRGINIA	IFTEKHARUDDIN, K.	4,965.07	72.26	-	-	5,037.33	2,669.79		7,707.12	TRAD
300305-019	* UNIVERSITY OF VIRGINIA	IFTEKHARUDDIN, K.	13,182.71	106.06	-	-	13,288.77	7,308.82		20,597.59	TRAD
400240-005	COMMONWEALTH CENTER FOR ADVANCED MANUFACTURING	IFTEKHARUDDIN, K.	22,174.22	2,083.14	-	-	24,257.36	8,490.08		32,747.44	TRAD
400240-006	COMMONWEALTH CENTER FOR ADVANCED MANUFACTURING	IFTEKHARUDDIN, K.	24,234.86	94.72	-	6,210.00	30,539.58	6,325.70		36,865.28	TRAD
100494-010	NATIONAL SCIENCE FOUNDATION	KRUSIENSKI, D.	9,442.89	678.15	-	-	10,121.04	5,364.14		15,485.18	TRAD
100613-010	NATIONAL SCIENCE FOUNDATION	KRUSIENSKI, D.	28,468.33	25,304.03	-	4,800.00	58,572.36	29,574.80		88,147.16	TRAD
300304-010	NORTH CAROLINA STATE UNIVERSITY	KRUSIENSKI, D.	52,224.06	3,716.44	-	-	55,940.50	29,648.45		85,588.95	TRAD
300415-010	OLD DOMINION UNIVERSITY	KRUSIENSKI, D.	-	148.32	-	4,851.68	5,000.00	-	5,000.00	TRAD	
300422-010	OLD DOMINION UNIVERSITY	KRUSIENSKI, D.	14,619.33	-	-	-	14,619.33	4,385.80		19,005.13	TRAD
500309-010	OCEAN BAY, LLC	KRUSIENSKI, D.	3,871.00	-	-	-	3,871.00	2,129.00		6,000.00	TRAD
100583-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	LAI, N.	-	(209.24)	-	-	(209.24)	(16.74)		(225.98)	TRAD
500154-010	COVIODIEN SURGICAL SOLUTIONS, INC.	LAROUSSI, M.	-	-	-	234.30	234.30	124.18		358.48	TRAD
100648-010	* NATIONAL SCIENCE FOUNDATION	LI, J.	1,500.79	1,995.81	-	20,190.04	23,686.64	1,923.13		25,609.76	TRAD
100656-010	* NASA GODDARD SPACEFLIGHT CENTER	LI, J.	28,035.10	2,745.72	-	-	30,780.82	16,929.45		47,710.27	TRAD
300460-010	UNIVERSITY OF TENNESSEE	LI, J.	9,518.74	-	-	-	9,518.74	5,235.31		14,754.05	TRAD
500263-010	INTELLIGENT AUTOMATION, INC.	LI, J.	19,445.45	2,925.94	-	-	22,371.39	11,856.86		34,228.25	TRAD
500312-010	APPLIED RESEARCH LLC	LI, J.	1,866.40	-	-	65.26	1,931.66	1,062.66		2,994.32	TRAD
500312-020	APPLIED RESEARCH LLC	LI, J.	4,125.02	1,160.14	-	37.84	5,323.00	2,927.00		8,250.00	TRAD
500312-030	APPLIED RESEARCH LLC	LI, J.	1,290.81	3,002.90	-	-	4,293.71	2,361.55		6,655.26	TRAD
500300-010	* EXCET, INC.	LI, J.	-	-	-	551.46	551.46	303.42		854.88	TRAD
100256-010	* NATIONAL SCIENCE FOUNDATION	MARSILLAC, S.	569.08	411.67	-	11,625.00	12,605.75	519.80		13,125.54	TRAD
100495-010	* NATIONAL SCIENCE FOUNDATION	MARSILLAC, S.	-	33.21	-	-	33.21	17.60		50.81	TRAD
300344-010	UNIVERSITY OF TOLEDO	MARSILLAC, S.	(4,025.36)	(1,301.22)	-	-	(5,326.58)	(2,823.09)		(8,149.67)	TRAD
300428-010	COLORADO SCHOOL OF MINES	MARSILLAC, S.	43,924.32	10,202.15	-	-	54,126.46	40,140.28		94,266.74	TRAD
300436-010	COLORADO SCHOOL OF MINES	MARSILLAC, S.	12,136.29	2,965.87	-	-	15,102.15	8,306.19		23,408.34	TRAD
500238-030	* NON-DISCLOSED SPONSORS	MARSILLAC, S.	8,080.39	309.96	-	-	8,390.35	4,282.52		12,672.87	TRAD
100595-010	* NASA GODDARD SPACEFLIGHT CENTER	POPESCU, D.	78.20	172.31	-	350.96	601.47	65.13		666.60	TRAD
100702-010	* NATIONAL SCIENCE FOUNDATION	POPESCU, I.	2,925.84	848.28	-	-	3,774.12	2,075.77		5,849.89	TRAD
100241-010	NATIONAL SCIENCE FOUNDATION	VAHALA, L.	12,857.12	79.50	-	-	12,936.62	6,856.41		19,793.03	TRAD
100538-010	* OFFICE OF NAVAL RESEARCH	VAHALA, L.	17,927.55	3,220.57	-	-	21,148.12	17,039.26		38,187.39	TRAD
100612-010	NATIONAL SCIENCE FOUNDATION	WU, H.	83,438.08	12,809.74	-	11,310.00	107,557.82	52,936.31		160,494.13	TRAD
100248-010	NATIONAL SCIENCE FOUNDATION	XIN, C.	2,162.46	514.50	-	-	2,676.96	1,418.79		4,095.75	TRAD
100253-010	NATIONAL SCIENCE FOUNDATION	XIN, C.	42,216.15	4,210.23	-	-	46,426.38	24,605.98		71,032.36	TRAD
100253-020	NATIONAL SCIENCE FOUNDATION	XIN, C.	-	-	(48.94)	(48.94)	-		(48.94)	TRAD	
100253-040	NATIONAL SCIENCE FOUNDATION	XIN, C.	-	-	4,010.00	4,010.00	-		4,010.00	TRAD	
100680-010	NATIONAL SCIENCE FOUNDATION	XIN, C.	-	2,254.80	-	-	2,254.80	1,240.14		3,494.94	TRAD
300374-010	SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY	ZHANG, Y.	28,818.45	5,020.10	-	3,026.66	36,865.21	18,611.20		55,476.41	TRAD
			678,539.47	170,207.41	31,509.50	140,711.11	1,020,967.49	448,113.43	-	1,469,080.92	43.89%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Electrical and Computer Engineering - Applied Research Center											
300311-010	ROCHESTER INSTITUTE OF TECHNOLOGY	BAILEY, C.	15,989.29	922.49	-	-	16,911.78	8,963.24		25,875.02	ARC
100221-010	* NATIONAL SCIENCE FOUNDATION	BAUMGART, H.	1,234.23	(29.92)	-	-	1,204.31	638.26		1,842.57	ARC
100473-010	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY	BAUMGART, H.	3,576.31	-	-	-	3,576.31	929.84		4,506.15	ARC
300409-010	* UNIVERSITY OF VIRGINIA	BAUMGART, H.	-	1,517.20	-	-	1,517.20	-		1,517.20	ARC
400110-023	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	BAUMGART, H.	5,780.88	-	-	969.12	6,750.00	-		6,750.00	ARC
500284-010	SUMMIT INFORMATION SOLUTIONS, INC	BAUMGART, H.	14,597.83	24.60	-	-	14,622.43	3,801.84		18,424.27	ARC
500295-010	MICROXACT, INC.	BAUMGART, H.	-	-	-	176.97	176.97	45.72		222.69	ARC
100221-010	* NATIONAL SCIENCE FOUNDATION	ELSAYED-ALI, H.	9,873.83	(239.34)	-	-	9,634.50	5,106.06		14,740.55	ARC
100567-020	LANGLEY RESEARCH CENTER	ELSAYED-ALI, H.	17,412.33	3,102.24	-	-	20,514.57	5,333.78		25,848.35	ARC
100674-010	NATIONAL SCIENCE FOUNDATION	ELSAYED-ALI, H.	44,065.57	8,364.74	2,521.88	-	54,952.19	28,836.67		83,788.86	ARC
300389-010	NORFOLK STATE UNIVERSITY	ELSAYED-ALI, H.	-	1,105.00	-	-	1,105.00	607.75		1,712.75	ARC
300430-010	UNIVERSITY OF VIRGINIA	ELSAYED-ALI, H.	5,938.75	2,214.08	-	-	8,152.83	-		8,152.83	ARC
400110-022	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	ELSAYED-ALI, H.	6,527.45	-	-	2,183.81	8,711.26	-		8,711.26	ARC
400125-010	EMBODY	ELSAYED-ALI, H.	481.25	3,100.00	-	0.08	3,581.33	1,969.73		5,551.06	ARC
400125-020	EMBODY	ELSAYED-ALI, H.	632.50	1,400.00	-	-	2,032.50	1,117.88		3,150.38	ARC
400288-010	EMBODY	ELSAYED-ALI, H.	-	(66.77)	-	-	(66.77)	(36.73)		(103.50)	ARC
400329-010	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	ELSAYED-ALI, H.	-	1,000.00	-	-	1,000.00	-		1,000.00	ARC
400342-010	COMMONWEALTH CENTER FOR ADVANCED MANUFACTURING	ELSAYED-ALI, H.	-	600.00	-	-	600.00	210.00		810.00	ARC
400346-011	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	ELSAYED-ALI, H.	18,812.02	4,253.36	-	-	23,065.38	-		23,065.38	ARC
400352-010	EMBODY	ELSAYED-ALI, H.	-	480.00	-	-	480.00	264.00		744.00	ARC
500254-010	VERTICAL CARBON TECHNOLOGIES, INC.	ELSAYED-ALI, H.	-	-	-	44.27	44.27	24.30		68.57	ARC
500258-010	NON-DISCLOSED SPONSORS	ELSAYED-ALI, H.	-	910.00	-	9.00	919.00	505.25		1,424.25	ARC
500285-010	BNNT, LLC	ELSAYED-ALI, H.	632.50	3,850.00	-	-	4,482.50	2,465.38		6,947.88	ARC
500288-010	FACE CONSTRUCTION TECHNOLOGIES	ELSAYED-ALI, H.	495.00	1,394.69	-	-	1,889.69	1,039.33		2,929.02	ARC
500345-010	MTEQ MANUFACTURING SERVICES	ELSAYED-ALI, H.	-	17,578.66	-	-	17,578.66	-		17,578.66	ARC
500361-010	BLACK LABORATORIES, LLC	ELSAYED-ALI, H.	-	470.00	-	-	470.00	258.50		728.50	ARC
100495-010	* NATIONAL SCIENCE FOUNDATION	ELSAYED-ALI, H.	-	66.41	-	-	66.41	35.20		101.61	ARC
200272-010	* CENTER FOR INNOVATIVE TECHNOLOGY	ELSAYED-ALI, H.	-	1,768.54	-	-	1,768.54	530.56		2,299.10	ARC
300409-010	* UNIVERSITY OF VIRGINIA	ELSAYED-ALI, H.	-	3,540.12	-	-	3,540.12	-		3,540.12	ARC
100256-010	* NATIONAL SCIENCE FOUNDATION	MARSILLAC, S.	569.08	411.67	-	11,625.00	12,605.75	519.80		13,125.54	ARC
100495-010	* NATIONAL SCIENCE FOUNDATION	MARSILLAC, S.	-	33.21	-	-	33.21	17.60		50.81	ARC
300344-010	UNIVERSITY OF TOLEDO	MARSILLAC, S.	(4,025.36)	(1,301.22)	-	-	(5,326.58)	(2,823.09)		(8,149.67)	ARC
300428-010	COLORADO SCHOOL OF MINES	MARSILLAC, S.	43,924.32	10,202.15	-	-	54,126.46	40,140.28		94,266.74	ARC
300436-010	COLORADO SCHOOL OF MINES	MARSILLAC, S.	12,136.29	2,965.87	-	-	15,102.15	8,306.19		23,408.34	ARC
500238-030	* NON-DISCLOSED SPONSORS	MARSILLAC, S.	8,080.39	309.96	-	-	8,390.35	4,282.52		12,672.87	ARC
300392-010	NORFOLK STATE UNIVERSITY	NAMKOONG, G.	7,293.29	-	-	-	7,293.29	4,011.30		11,304.59	ARC
300465-010	UNIVERSITY OF VIRGINIA	NAMKOONG, G.	3,225.66	145.01	-	-	3,370.67	-		3,370.67	ARC
600211-010	SAMIL TECH COMPANY, LTD	NAMKOONG, G.	9,527.02	36.00	-	-	9,563.02	-		9,563.02	ARC
100221-010	* NATIONAL SCIENCE FOUNDATION	NAMKOONG, G.	1,234.23	(29.92)	-	-	1,204.31	638.26		1,842.57	ARC
100256-010	* NATIONAL SCIENCE FOUNDATION	NAMKOONG, G.	1,821.06	1,317.32	-	37,200.00	40,338.38	1,663.34		42,001.72	ARC
100495-010	* NATIONAL SCIENCE FOUNDATION	NAMKOONG, G.	-	243.52	-	-	243.52	129.06		372.58	ARC
			229,835.70	71,659.66	2,521.88	52,208.25	356,225.49	119,531.81	-	475,757.30	33.56%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Electrical and Computer Engineering - Center for Bioelectronics											
100661-010	AIR FORCE RESEARCH LABORATORY	JIANG, C.	48,525.60	24,259.68	-	-	72,785.28	40,031.90		112,817.18	CBE
500328-010	TRANSIENT PLASMA SYSTEMS, INC.	JIANG, C.	32,641.26	5,137.49	-	-	37,778.75	20,778.31		58,557.06	CBE
100341-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	KOLB, J.	-	0.20	-	-	0.20	0.11		0.31	CBE
600186-010	* UNIVERSITY OF SOUTHAMPTON	KONG, M.	198,352.85	13,507.75	-	-	211,860.60	112,286.11		324,146.71	CBE
300345-011	OLD DOMINION UNIVERSITY	XIAO, S.	92,099.47	13,646.32	-	4,263.40	110,009.19	58,160.18		168,169.37	CBE
300369-010	UNIVERSITY OF TEXAS AT ARLINGTON	XIAO, S.	5,489.22	622.65	-	-	6,111.87	3,361.53		9,473.40	CBE
100548-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	XIAO, S.	8,652.59	993.62	-	-	9,646.21	5,305.41		14,951.62	CBE
500226-011	* PULSE BIOSCIENCES (ELECTROBLATE)	XIAO, S.	85,369.28	17,460.48	-	3,598.61	106,428.37	56,556.37		162,984.74	CBE
100548-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	ZEMLIN, C.	69,220.68	7,948.96	-	-	77,169.64	42,443.30		119,612.94	CBE
400333-010	AMERICAN HEART ASSOCIATION	ZEMLIN, C.	14,129.82	394.95	-	-	14,524.77	-		14,524.77	CBE
500226-007	PULSE BIOSCIENCES (ELECTROBLATE)	ZEMLIN, C.	9,943.83	28,925.06	-	-	38,868.89	21,377.88		60,246.77	CBE
			564,424.60	112,897.16	-	7,862.01	685,183.77	360,301.10	-	1,045,484.87	52.58%
Electrical and Computer Engineering - Center for Cybersecurity											
100648-010	* NATIONAL SCIENCE FOUNDATION	IFTEKHARUDDIN, K.	1,500.79	1,995.81	-	20,190.04	23,686.64	1,923.13		25,609.76	CYBER
100706-010	* NATIONAL SECURITY AGENCY	WU, H.	392.11	757.60	-	-	1,149.71	632.34		1,782.05	CYBER
100709-010	* NATIONAL SCIENCE FOUNDATION	WU, H.	1,191.65	330.00	-	-	1,521.64	836.90		2,358.55	CYBER
100527-016	* NASA GODDARD SPACEFLIGHT CENTER	XIN, C.	3,602.25	-	-	1,514.44	5,116.69	-		5,116.69	CYBER
100648-010	* NATIONAL SCIENCE FOUNDATION	XIN, C.	1,500.79	1,995.81	-	20,190.04	23,686.64	1,923.13		25,609.76	CYBER
100706-010	* NATIONAL SECURITY AGENCY	XIN, C.	588.17	1,136.40	-	-	1,724.57	948.51		2,673.08	CYBER
100709-010	* NATIONAL SCIENCE FOUNDATION	XIN, C.	1,191.65	330.00	-	-	1,521.64	836.90		2,358.55	CYBER
			9,967.40	6,545.60	-	41,894.52	58,407.52	7,100.91	-	65,508.44	12.16%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Mechanical & Aerospace Engineering											
400203-001	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	ASH, R.	5,952.95	-	-	-	5,952.95	1,547.76	-	7,500.71	TRAD
100595-010	* NASA GODDARD SPACEFLIGHT CENTER	ASH, R.	78.20	172.31	-	350.96	601.47	65.13	-	666.60	TRAD
100628-010	AMES RESEARCH LABS	BAWAB, S.	14,485.75	1,305.29	-	12,206.35	27,997.39	-	-	27,997.39	TRAD
400365-010	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	BAWAB, S.	-	-	-	6,222.22	6,222.22	-	-	6,222.22	TRAD
100588-010	* OFFICE OF NAVAL RESEARCH	BAWAB, S.	30,428.61	7,625.76	-	1,824.30	39,878.67	24,735.34	-	64,614.01	TRAD
100599-010	* OFFICE OF NAVAL RESEARCH	BAWAB, S.	12,565.48	2,405.61	-	-	14,971.09	8,523.61	-	23,494.70	TRAD
400311-010	* CHILDREN'S HEATH FOUNDATION, INC.	BAWAB, S.	9,456.71	4,471.14	-	-	13,927.85	-	-	13,927.85	TRAD
100458-010	* NATIONAL SCIENCE FOUNDATION	BESKOK, A.	5,458.59	243.55	-	-	5,702.14	3,022.13	-	8,724.28	TRAD
100599-010	* OFFICE OF NAVAL RESEARCH	BILGEN, O.	8,854.38	447.16	-	-	9,301.53	5,115.84	-	14,417.37	TRAD
400221-010	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	BRITCHER, C.	9,255.29	-	-	-	9,255.29	2,406.37	-	11,661.66	TRAD
400271-002	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	BRITCHER, C.	24,430.59	3,299.66	-	4,177.50	31,907.75	7,209.87	-	39,117.62	TRAD
400271-005	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	BRITCHER, C.	29,580.85	1,115.64	-	6,264.00	36,960.49	7,981.09	-	44,941.58	TRAD
400348-010	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	BRITCHER, C.	73,452.91	-	-	-	73,452.91	19,097.74	-	92,550.65	TRAD
500252-010	VIGYAN	BRITCHER, C.	9,966.88	1,546.39	-	6,316.10	17,829.37	2,993.45	-	20,822.82	TRAD
100599-010	* OFFICE OF NAVAL RESEARCH	CHATURVEDI, S.	12,565.48	2,405.61	-	-	14,971.09	8,523.61	-	23,494.70	TRAD
100599-010	* OFFICE OF NAVAL RESEARCH	GHOSH, D.	3,711.10	1,958.46	-	-	5,669.56	3,407.77	-	9,077.33	TRAD
300398-010	UNIVERSITY OF VIRGINIA	GHOSH, D.	1,058.99	1,972.76	-	-	3,031.75	-	-	3,031.75	TRAD
500321-010	BNNT, LLC	GHOSH, D.	-	-	-	179.26	179.26	98.59	-	277.85	TRAD
100237-010	NATIONAL SCIENCE FOUNDATION	HAO, J.	-	-	-	2,200.00	2,200.00	-	-	2,200.00	TRAD
100458-010	* NATIONAL SCIENCE FOUNDATION	HAO, J.	10,137.38	452.31	-	-	10,589.69	5,612.54	-	16,202.23	TRAD
100256-010	* NATIONAL SCIENCE FOUNDATION	HOU, G.	455.26	329.33	-	9,300.00	10,084.60	415.84	-	10,500.43	TRAD
100569-010	* OFFICE OF NAVAL RESEARCH	HOU, G.	-	-	13,800.00	-	13,800.00	-	-	13,800.00	TRAD
100588-010	* OFFICE OF NAVAL RESEARCH	HOU, G.	30,428.61	7,625.76	-	1,824.30	39,878.67	24,735.34	-	64,614.01	TRAD
100702-010	* NATIONAL SCIENCE FOUNDATION	KAIPA, K.	2,925.84	848.28	-	-	3,774.12	2,075.77	-	5,849.89	TRAD
100527-024	NASA GODDARD SPACEFLIGHT CENTER	KRAVCHENKO, O.	-	2,432.30	-	-	2,432.30	-	-	2,432.30	TRAD
400271-006	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	KRAVCHENKO, O.	22,040.96	-	-	9,045.00	31,085.96	-	-	31,085.96	TRAD
400203-004	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	LANDMAN, D.	13,412.79	-	-	-	13,412.79	7,377.04	-	20,789.83	TRAD
100560-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	MARUTHAMUTHU, V.	53,181.41	52,883.20	-	-	106,064.61	56,214.24	-	162,278.85	TRAD
400255-010	JEFFRESS RESEARCH GRANTS PROGRAM	MARUTHAMUTHU, V.	-	53.06	-	-	53.06	-	-	53.06	TRAD
100549-010	AIR FORCE RESEARCH LABORATORY	NEWMAN, B.	15,789.13	-	-	-	15,789.13	5,684.09	-	21,473.22	TRAD
100532-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	WRIGGERS, W.	118,936.16	3,977.34	-	-	122,913.50	67,602.44	-	190,515.93	TRAD
100593-010	* NATIONAL SCIENCE FOUNDATION	ZHANG, X.	3,738.41	302.62	-	48,711.38	52,752.41	2,222.56	-	54,974.97	TRAD
100593-020	* NATIONAL SCIENCE FOUNDATION	ZHANG, X.	-	-	-	3,160.00	3,160.00	-	-	3,160.00	TRAD
			522,348.71	97,873.53	13,800.00	111,781.37	745,803.61	266,668.15	-	1,012,471.76	35.76%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST					PROJECT IDC AND FEES		TOTAL COSTS	
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Engineering Technology											
100630-010	* NATIONAL SCIENCE FOUNDATION	AYALA, O.	2,456.88	2,497.84	3,074.15	410.90	8,439.77	2,725.10		11,164.86	TRAD
400335-010	ACS PETROLEUM RESEARCH FOUNDATION	AYALA, O.	8,106.46	-	-	-	8,106.46	-		8,106.46	TRAD
200246-010	* CITY OF VIRGINIA BEACH	CONSIDIENE, C.	4,735.34	101.22	-	-	4,836.56	1,257.51		6,094.06	TRAD
300365-010	* OLD DOMINION UNIVERSITY	CONSIDIENE, C.	12,672.70	4,738.16	-	-	17,410.85	2,611.63		20,022.48	TRAD
400277-010	* BLUE MOON FUND	CONSIDIENE, C.	37,439.37	55.31	-	-	37,494.68	5,624.20		43,118.88	TRAD
500238-030	* NON-DISCLOSED SPONSORS	DHALI, S.	24,241.16	929.89	-	-	25,171.04	12,847.57		38,018.62	TRAD
400279-010	ADVANCED TECHNOLOGY INTERNATIONAL	FOSTER, D.	734.29	-	-	-	734.29	403.86		1,138.15	TRAD
100599-010	* OFFICE OF NAVAL RESEARCH	JOVANOVIC, V.	12,565.48	2,405.61	-	-	14,971.09	8,523.61		23,494.70	TRAD
100702-010	* NATIONAL SCIENCE FOUNDATION	JOVANOVIC, V.	2,925.84	848.28	-	-	3,774.12	2,075.77		5,849.89	TRAD
100708-010	* NATIONAL SCIENCE FOUNDATION	JOVANOVIC, V.	1,821.74	-	-	-	1,821.74	1,001.96		2,823.70	TRAD
300030-012	* UNIVERSITY OF VIRGINIA	JOVANOVIC, V.	6,002.28	273.94	-	774.23	7,050.44	-		7,050.44	TRAD
300361-010	* TIDEWATER COMMUNITY COLLEGE	JOVANOVIC, V.	23,216.93	3,498.60	-	-	26,715.53	14,693.55		41,409.08	TRAD
300423-010	* OLD DOMINION UNIVERSITY	JOVANOVIC, V.	6,778.40	482.02	-	6,081.61	13,342.03	-		13,342.03	TRAD
300361-010	* TIDEWATER COMMUNITY COLLEGE	KATSIOLLOUDIS, P.	18,573.54	2,798.88	-	-	21,372.42	11,754.84		33,127.26	TRAD
100572-010	* OFFICE OF NAVAL RESEARCH	LAWRENCE, R.	4,008.90	-	-	-	4,008.90	3,006.68		7,015.58	TRAD
300365-010	* OLD DOMINION UNIVERSITY	LESTER, J.	4,242.75	1,682.32	-	-	5,925.07	888.76		6,813.83	TRAD
100534-010	OFFICE OF NAVAL RESEARCH	MICHAELI, J.	14,611.04	2,318.26	-	-	16,929.30	8,972.55		25,901.85	TRAD
100538-010	* OFFICE OF NAVAL RESEARCH	MICHAELI, J.	44,818.87	8,051.43	-	-	52,870.30	26,374.79		79,245.09	TRAD
100569-010	* OFFICE OF NAVAL RESEARCH	MICHAELI, J.	-	-	27,600.00	-	27,600.00	-		27,600.00	TRAD
100572-010	* OFFICE OF NAVAL RESEARCH	MICHAELI, J.	4,008.90	-	-	-	4,008.90	2,204.90		6,213.80	TRAD
100588-010	* OFFICE OF NAVAL RESEARCH	MICHAELI, J.	40,571.48	10,167.68	-	2,432.40	53,171.56	32,980.46		86,152.01	TRAD
300463-010	OLD DOMINION UNIVERSITY	MICHAELI, J.	117,665.42	33,441.06	-	-	151,106.48	-		151,106.48	TRAD
500271-010	NEWPORT NEWS SHIPBUILDING	MICHAELI, J.	-	-	-	149.19	149.19	-		149.19	TRAD
100569-010	* OFFICE OF NAVAL RESEARCH	MOSES, P.	-	-	27,600.00	-	27,600.00	-		27,600.00	TRAD
100527-014	NASA GODDARD SPACEFLIGHT CENTER	POPESCU, O.	-	2,016.59	-	-	2,016.59	-		2,016.59	TRAD
200009-021	STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	POPESCU, O.	-	4,957.45	-	-	4,957.45	-		4,957.45	TRAD
300365-010	* OLD DOMINION UNIVERSITY	SEEK, M.	6,531.93	2,239.51	-	-	8,771.44	1,315.72		10,087.16	TRAD
400327-010	AMERICAN IRON AND STEEL INSTITUTION	SEEK, M.	2,602.60	-	-	-	2,602.60	-		2,602.60	TRAD
100599-010	* OFFICE OF NAVAL RESEARCH	TOMOVIC, M.	12,565.48	2,405.61	-	-	14,971.09	8,523.61		23,494.70	TRAD
100708-010	* NATIONAL SCIENCE FOUNDATION	TOMOVIC, M.	1,366.31	-	-	-	1,366.31	751.47		2,117.77	TRAD
300361-010	* TIDEWATER COMMUNITY COLLEGE	TOMOVIC, M.	4,643.39	699.72	-	-	5,343.11	2,938.71		8,281.82	TRAD
			419,907.47	86,609.38	58,274.15	9,848.32	574,639.32	151,477.21	-	726,116.53	26.36%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST					PROJECT IDC AND FEES		TOTAL COSTS	
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Engineering Management											
500343-010	* CACI, INC.--FEDERAL	COTTER, S.	20,391.45	711.85	-	-	21,103.30	11,606.82		32,710.12	TRAD
500343-010	* CACI, INC.--FEDERAL	DANIELS, C.	20,391.45	711.85	-	-	21,103.30	11,606.82		32,710.12	TRAD
100654-010	* NATIONAL SECURITY AGENCY	GHEORGE, A.	24,929.49	3,763.18	-	-	28,692.66	15,780.97		44,473.63	TRAD
100691-010	* NATIONAL SECURITY AGENCY	GHEORGE, A.	51,118.46	13,305.66	-	-	64,424.12	35,021.05		99,445.18	TRAD
500260-020	CONTRACTING RESOURCES GROUP	HANDLEY, H.	10,287.48	466.44	-	-	10,753.92	5,699.58		16,453.50	TRAD
500260-030	CONTRACTING RESOURCES GROUP	HANDLEY, H.	3,802.95	-	-	-	3,802.95	2,091.62		5,894.57	TRAD
500294-010	NON-DISCLOSED SPONSORS	HANDLEY, H.	1,647.38	-	-	-	1,647.38	906.06		2,553.44	TRAD
500348-010	NON-DISCLOSED SPONSORS	HANDLEY, H.	15,090.56	2,259.77	-	-	17,350.33	9,542.68		26,893.01	TRAD
500297-010	VIRGINIA NATURAL GAS	PAZOS-LAGO, P.	11,023.46	-	-	67.88	11,091.34	2,994.92		14,086.26	TRAD
300413-010	UNIVERSITY OF VIRGINIA	PINTO, C.	499.82	-	-	-	499.92	130.45		630.37	TRAD
500304-020	FM GLOBAL	PINTO, C.	20,028.50	-	-	4.02	20,032.52	11,017.39		31,049.91	TRAD
500304-030	FM GLOBAL	PINTO, C.	13,888.87	-	-	-	13,888.87	3,611.11		17,499.98	TRAD
100654-010	* NATIONAL SECURITY AGENCY	PINTO, C.	24,929.49	3,763.18	-	-	28,692.66	15,780.97		44,473.63	TRAD
600195-010	QATAR UNIVERSITY	RABADI, G.	21,604.35	1,516.15	-	-	23,120.50	4,624.11		27,744.61	TRAD
500343-010	* CACI, INC.--FEDERAL	RABADI, G.	20,391.45	711.85	-	-	21,103.30	11,606.82		32,710.12	TRAD
600213-010	* NATO	RABADI, G.	17,181.71	-	-	882.80	18,064.50	9,935.50		28,000.00	TRAD
600213-010	* NATO	SECK, M.	17,181.71	-	-	882.80	18,064.50	9,935.50		28,000.00	TRAD
100708-010	* NATIONAL SCIENCE FOUNDATION	SIBSON, K.	1,821.74	-	-	-	1,821.74	1,001.96		2,823.70	TRAD
100691-010	* NATIONAL SECURITY AGENCY	SOUSA-POZA, A.	17,039.49	4,435.22	-	-	21,474.71	12,223.32		33,698.03	TRAD
500343-010	* CACI, INC.--FEDERAL	SOUSA-POZA, A.	20,391.45	711.85	-	-	21,103.30	11,606.82		32,710.12	TRAD
			333,641.22	32,357.01	-	1,837.49	367,835.82	186,724.44	-	554,560.26	50.76%
Modeling, Simulation & Visualization											
400311-010	* CHILDREN'S HEATH FOUNDATION, INC.	AUDETTE, M.	16,003.66	7,566.54	-	-	23,570.21	-		23,570.21	TRAD
100599-010	* OFFICE OF NAVAL RESEARCH	AUDETTE, M.	12,565.48	2,405.61	-	-	14,971.09	8,523.61		23,494.70	TRAD
400332-010	* ALZHEIMER'S ASSOCIATION	AUDETTE, M.	15,066.84	4,492.82	-	-	19,559.66	1,955.97		21,515.63	TRAD
500342-001	* WR SYSTEMS, LTD.	LEATHRUM, J.	13,867.24	600.00	-	-	14,467.24	9,403.71		23,870.95	TRAD
100599-010	* OFFICE OF NAVAL RESEARCH	MCKENZIE, F.	12,565.48	2,405.61	-	-	14,971.09	8,523.61		23,494.70	TRAD
500342-001	* WR SYSTEMS, LTD.	MIELKE, R.	6,933.62	300.00	-	-	7,233.62	4,701.86		11,935.48	TRAD
400311-010	* CHILDREN'S HEATH FOUNDATION, INC.	RINGLEB, S.	10,911.59	5,159.01	-	-	16,070.60	-		16,070.60	TRAD
400203-003	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	SHEN, Y.	8,946.27	-	-	-	8,946.27	4,920.45		13,866.72	TRAD
100538-010	* OFFICE OF NAVAL RESEARCH	SHEN, Y.	44,818.87	8,051.43	-	-	52,870.30	26,374.79		79,245.09	TRAD
300359-010	* DUKE UNIVERSITY	SHEN, Y.	454.93	-	-	-	454.93	113.73		568.67	TRAD
300418-010	* DUKE UNIVERSITY	SHEN, Y.	4,133.99	6,418.82	-	-	10,552.81	2,638.21		13,191.02	TRAD
400332-010	* ALZHEIMER'S ASSOCIATION	SHEN, Y.	8,843.58	2,637.09	-	-	11,480.67	1,148.07		12,628.74	TRAD
100518-010	AMES RESEARCH LABS	SOSONKINA, M.	30,617.43	4,707.05	-	-	35,324.48	18,721.98		54,046.46	TRAD
100695-010	AMES RESEARCH LABS	SOSONKINA, M.	10,451.96	2,466.62	-	-	12,918.58	7,105.22		20,023.80	TRAD
300241-010	IOWA STATE UNIVERSITY	SOSONKINA, M.	68,781.60	13,261.22	-	-	82,042.82	43,482.69		125,525.51	TRAD
300242-010	IOWA STATE UNIVERSITY	SOSONKINA, M.	-	(427.99)	-	-	(427.99)	(226.83)		(654.82)	TRAD
300343-020	IOWA STATE UNIVERSITY	SOSONKINA, M.	43,879.41	5,670.07	-	-	49,549.48	26,261.22		75,810.70	TRAD
400271-004	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	SOSONKINA, M.	8,744.80	-	-	-	8,744.80	4,809.64		13,554.44	TRAD
200253-010	* VA DEPARTMENT OF TRANSPORTATION	YANG, H.	11,660.66	420.16	-	878.00	12,958.82	3,141.01		16,099.83	TRAD
			329,247.42	66,134.06	-	878.00	396,259.48	171,598.93	-	567,858.42	43.30%
Modeling, Simulation & Visualization - VMASC											
100617-010	AIR FORCE MATERIAL COMMAND	SHETTY, S.	85,335.58	29,288.27	-	-	114,623.85	63,043.11		177,666.96	VMASC
300388-010	NORFOLK STATE UNIVERSITY	SHETTY, S.	37,839.19	16,352.34	-	9,502.65	63,694.18	29,805.36		93,499.54	VMASC
300390-010	UNIVERSITY OF ILLINOIS (ALL CAMPUSES)	SHETTY, S.	125,098.75	24,789.16	-	19,685.75	169,573.66	82,438.36		252,012.02	VMASC
300397-010	UNIVERSITY OF ILLINOIS (ALL CAMPUSES)	SHETTY, S.	29,807.08	21,056.09	-	6,938.60	57,801.77	27,974.74		85,776.51	VMASC
400358-010	SENTARA HOSPITALS	SHETTY, S.	39,567.02	12,881.71	-	-	52,448.73	28,846.81		81,295.54	VMASC
			317,647.62	104,367.57	-	36,127.00	458,142.19	232,108.38	-	690,250.57	50.66%
TOTAL BATTEN COLLEGE OF ENGINEERING AND TECHNOLOGY			\$ 3,961,534.73	\$ 914,104.63	\$ 133,772.85	\$ 876,139.59	\$ 5,885,551.89	\$ 2,267,906.72	\$ -	\$ 8,153,458.62	38.53%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS			
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
COLLEGE OF HEALTH SCIENCES												
Dean's Office												
100689-010	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	ADAMS-TUFTS, K.	6,609.73	485.88	-	10,256.65	17,352.26	567.65	-	17,919.91	TRAD	
			6,609.73	485.88	-	10,256.65	17,352.26	567.65	-	17,919.91	3.27%	
Community & Environmental Health												
400362-010	* OHIO SUICIDE PREVENTION FOUNDATION	ADAMS-TUFTS, K.	217.97	39.28	-	-	257.26	25.73	-	282.98	TRAD	
400277-010	* BLUE MOON FUND	BECKER, S.	4,159.93	6.15	-	-	4,166.08	624.91	-	4,790.99	TRAD	
100446-010	CENTERS FOR DISEASE CONTROL AND PREVENTION (DHHS)	BLANDO, J.	5,407.91	-	-	-	5,407.91	2,703.96	-	8,111.87	TRAD	
100641-010	NAVAL MEDICAL CENTER PORTSMOUTH	CRAMER, R.	35,280.13	-	-	-	35,280.13	9,172.86	-	44,452.99	TRAD	
500286-010	CONSOLIDATED CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT	CRAMER, R.	2,336.49	-	-	13.66	2,350.15	-	-	2,350.15	TRAD	
400362-010	* OHIO SUICIDE PREVENTION FOUNDATION	CRAMER, R.	4,141.50	746.36	-	-	4,887.85	488.78	-	5,376.64	TRAD	
100506-010	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	JENG, A.	4,096.89	2,018.62	-	-	6,115.51	-	-	6,115.51	TRAD	
100645-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	PARK, K.	8,228.28	6,582.08	-	-	14,810.36	8,145.70	-	22,956.06	TRAD	
100620-010	U.S. DEPARTMENT OF AGRICULTURE	ZHANG, H.	14,896.73	3,311.59	-	-	18,208.32	1,820.83	-	20,029.15	TRAD	
100645-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	ZHANG, H.	24,684.85	19,746.23	-	-	44,431.08	24,437.09	-	68,868.17	TRAD	
300359-010	* DUKE UNIVERSITY	ZHANG, H.	606.58	-	-	-	606.58	151.64	-	758.22	TRAD	
300416-010	OLD DOMINION UNIVERSITY	ZHANG, H.	4,349.99	437.09	-	-	4,787.08	2,632.90	-	7,419.98	TRAD	
300418-010	* DUKE UNIVERSITY	ZHANG, H.	5,511.99	8,558.42	-	-	14,070.41	3,517.61	-	17,588.02	TRAD	
			113,919.24	41,445.82	-	13.66	155,378.71	53,722.01	-	209,100.73	34.57%	
Dental Hygiene												
300318-010	OLD DOMINION UNIVERSITY	MCCOMBS, G.	(17,216.44)	-	-	-	(17,216.44)	(5,164.93)	-	(22,381.37)	TRAD	
300349-011	* EASTERN VIRGINIA MEDICAL SCHOOL	MCCOMBS, G.	1,000.09	-	-	-	1,000.09	80.01	-	1,080.10	TRAD	
300349-011	* EASTERN VIRGINIA MEDICAL SCHOOL	TOLLE, S.	1,000.09	-	-	-	1,000.09	80.01	-	1,080.10	TRAD	
			(15,216.26)	-	-	-	(15,216.26)	(5,004.91)	-	(20,221.17)	32.89%	
Medical Diagnostic Translation Sciences												
400331-010	* JEFFRESS RESEARCH GRANTS PROGRAM	BRUNO, R.	22,289.96	9,199.63	-	-	31,489.59	-	-	31,489.59	TRAD	
200194-010	* COMMONWEALTH HEALTH RESEARCH BOARD	BRUNO, R.	3,046.56	4,958.85	-	-	8,005.40	-	-	8,005.40	TRAD	
300364-010	OLD DOMINION UNIVERSITY	OGLE, R.	-	-	-	82,060.97	82,060.97	24,617.59	-	106,678.56	TRAD	
100578-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	RIETHMAN, H.	19,926.20	11,790.46	-	119,958.42	151,675.08	17,444.16	-	169,119.24	TRAD	
100582-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	RIETHMAN, H.	-	-	-	11,729.33	11,729.33	(0.27)	-	11,729.06	TRAD	
300375-010	UNIVERSITY OF PENNSYLVANIA	RIETHMAN, H.	4,933.39	710.96	-	-	5,644.35	3,104.39	-	8,748.74	TRAD	
400272-010	THE WISTAR INSTITUTE	RIETHMAN, H.	34,062.68	-	-	-	34,062.68	18,734.48	-	52,797.16	TRAD	
200194-010	* COMMONWEALTH HEALTH RESEARCH BOARD	SACHS, P.	3,046.56	4,958.85	-	-	8,005.40	-	-	8,005.40	TRAD	
400331-010	* JEFFRESS RESEARCH GRANTS PROGRAM	SACHS, P.	22,289.96	9,199.63	-	-	31,489.59	-	-	31,489.59	TRAD	
			109,595.29	40,818.37	-	213,748.72	364,162.38	63,900.35	-	428,062.73	17.55%	
Medical Diagnostic Translation Sciences - Center for Bioelectronics												
100692-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	CATRAVAS, J.	94,933.18	26,020.10	-	-	120,953.28	66,524.30	-	187,477.58	CBE	
600210-010	FERRING PHARMACEUTICALS INC.	CATRAVAS, J.	77,708.34	9,435.21	-	-	87,143.55	47,928.94	-	135,072.49	CBE	
500226-008	* PULSE BIOSCIENCES (ELECTROBLATE)	CATRAVAS, J.	-	-	-	2,569.09	2,569.09	1,412.44	-	3,981.52	CBE	
500366-010	* OLYMPUS CORPORATION OF THE AMERICAS	CATRAVAS, J.	-	146.85	-	-	146.85	80.77	-	227.61	CBE	
100579-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HELLER, L.	79,414.33	27,233.31	-	101,201.09	207,848.73	58,656.19	-	266,504.92	CBE	
100516-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HELLER, R.	148,617.19	40,887.90	-	36,727.70	226,232.79	100,437.69	-	326,670.48	CBE	
500226-000	PULSE BIOSCIENCES (ELECTROBLATE)	HELLER, R.	-	33.96	-	-	33.96	-	-	33.96	CBE	
100517-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HELLER, R.	106,089.73	50,181.38	-	-	156,271.11	82,823.69	-	239,094.79	CBE	
500226-005	* PULSE BIOSCIENCES (ELECTROBLATE)	HELLER, R.	-	147.69	-	326.47	474.15	260.85	-	735.00	CBE	
100548-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	PAKHOMOV, A.	69,220.68	7,948.96	-	-	77,169.64	42,443.30	-	119,612.94	CBE	
300345-010	OLD DOMINION UNIVERSITY	PAKHOMOV, A.	211,671.56	55,963.73	-	728,335.04	995,970.33	147,199.41	-	1,143,169.74	CBE	
			787,655.01	217,999.08	-	869,159.38	1,874,813.47	547,767.57	-	2,422,581.04	29.22%	

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Nursing											
100566-020	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	ADAMS, T.	(16,376.09)	126.93	-	-	(16,249.16)	(1,299.93)		(17,549.09)	TRAD
100669-010	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	APATOV, N.	-	-	-	19,816.00	19,816.00	-	19,816.00		TRAD
100533-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	FOWLER, C.	67,740.96	6,467.53	1,324.66	51,259.80	126,792.95	5,936.68		132,729.63	TRAD
100689-010	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	FOWLER, C.	9,442.47	694.12	-	14,652.35	24,788.94	810.93		25,599.87	TRAD
100533-020	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	FOWLER, C.	3,868.11	1,462.65	-	4,941.71	10,272.48	426.46		10,698.94	TRAD
100670-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	FOWLER, C.	14,043.15	517.50	-	8,400.00	22,960.65	1,164.85		24,125.51	TRAD
100478-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HANEY, T.	743.41	(98.45)	-	1,426.55	2,071.51	51.60		2,123.10	TRAD
100533-020	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HANEY, T.	3,868.11	1,462.65	-	4,941.71	10,272.48	426.46		10,698.94	TRAD
100533-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HANEY, T.	67,740.96	6,467.53	1,324.66	51,259.80	126,792.95	5,936.68		132,729.63	TRAD
100670-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HANEY, T.	63,577.36	13,262.30	2,270.99	41,330.20	120,440.84	6,147.18		126,588.02	TRAD
100566-020	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HAWKINS, J.	(24,564.14)	190.40	-	-	(24,373.74)	(1,949.90)		(26,323.64)	TRAD
100670-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HIGGINS, K.	24,313.15	4,535.77	757.00	15,643.40	45,249.32	2,307.91		47,557.23	TRAD
100566-020	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	KARLOWICZ, K.	(16,376.09)	126.93	-	-	(16,249.16)	(1,299.93)		(17,549.09)	TRAD
100478-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	MURRAY, D.	743.41	(98.45)	-	1,426.55	2,071.51	51.60		2,123.10	TRAD
100670-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	NESBITT, C.	22,426.58	6,286.15	1,135.49	15,065.10	44,913.32	2,297.02		47,210.34	TRAD
100478-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	POSTON, R.	743.41	(98.45)	-	1,426.55	2,071.51	51.60		2,123.10	TRAD
100533-020	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	POSTON, R.	3,868.11	1,462.65	-	4,941.71	10,272.48	426.46		10,698.94	TRAD
100533-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	POSTON, R.	67,740.96	6,467.53	1,324.66	51,259.80	126,792.95	5,936.68		132,729.63	TRAD
100670-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	POSTON, R.	36,469.73	6,803.65	1,135.49	23,465.10	67,873.97	3,461.87		71,335.84	TRAD
100478-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	RUTLEDGE, C.	2,973.62	(393.80)	-	5,706.20	8,286.02	206.39		8,492.41	TRAD
100533-020	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	RUTLEDGE, C.	5,802.17	2,193.98	-	7,412.57	15,408.71	639.69		16,048.41	TRAD
100533-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	RUTLEDGE, C.	101,611.44	9,701.30	1,986.99	76,889.69	190,189.43	8,905.02		199,094.45	TRAD
100670-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	RUTLEDGE, C.	36,469.73	6,803.65	1,135.49	23,465.10	67,873.97	3,461.87		71,335.84	TRAD
100533-020	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	WILES, L.	1,934.06	731.33	-	2,470.86	5,136.24	213.23		5,349.47	TRAD
100533-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	WILES, L.	33,870.48	3,233.77	662.33	25,629.90	63,396.48	2,968.34		66,364.82	TRAD
100566-020	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	WILES, L.	(24,564.14)	190.40	-	-	(24,373.74)	(1,949.90)		(26,323.64)	TRAD
			488,110.95	78,499.54	13,057.76	452,830.64	1,032,498.89	45,328.87	-	1,077,827.76	4.39%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Physical Therapy											
100670-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HOCH, J.	9,362.10	345.00	-	5,600.00	15,307.10	776.57		16,083.67	TRAD
400263-010	* EASTERN ATHLETIC TRAINER'S ASSOCIATION	HOCH, J.	-	-	-	486.67	486.67	-		486.67	TRAD
100478-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	KOTT, K.	743.41	(98.45)	-	1,426.55	2,071.51	51.60		2,123.10	TRAD
100670-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	KOTT, K.	36,469.73	6,803.65	1,135.49	23,465.10	67,873.97	3,461.87		71,335.84	TRAD
300002-010	OLD DOMINION UNIVERSITY	MORRISON, S.	4,178.62	(58.12)	-	-	4,120.50	-		4,120.50	TRAD
300383-010	GEORGE MASON UNIVERSITY	MORRISON, S.	-	-	-	(0.26)	(0.26)	-		(0.26)	TRAD
300441-010	GEORGE MASON UNIVERSITY	MORRISON, S.	7,714.93	-	-	-	7,714.93	-		7,714.93	TRAD
400314-010	MID ATLANTIC TRAINERS' ASSOCIATION	MORRISON, S.	-	255.00	-	220.00	475.00	-		475.00	TRAD
400332-010	* ALZHEIMER'S ASSOCIATION	MORRISON, S.	8,843.58	2,637.09	-	-	11,480.67	1,148.07		12,628.74	TRAD
400340-010	NATIONAL ASSOCIATION RESEARCH AND EDUCATION FOUI VAN LUNEN, B.		5,528.42	-	-	-	5,528.42	829.26		6,357.68	TRAD
400341-010	NATIONAL ASSOCIATION RESEARCH AND EDUCATION FOUI VAN LUNEN, B.		-	724.39	-	-	724.39	-		724.39	TRAD
			72,840.79	10,608.56	1,135.49	31,198.06	115,782.90	6,267.36	-	122,050.27	5.41%
	TOTAL COLLEGE OF HEALTH SCIENCES		\$ 1,563,514.75	\$ 389,857.25	\$ 14,193.25	\$ 1,577,207.11	\$ 3,544,772.36	\$ 712,548.90	\$ -	\$ 4,257,321.26	20.10%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS			
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	
COLLEGE OF SCIENCES												
Biological Sciences												
100529-010	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	BARSHIS, D.	309.00	2,013.90	-	-	2,322.90	580.70		2,903.60	TRAD	
300386-010	VA INSTITUTE OF MARINE SCIENCE (VIMS)	BARSHIS, D.	24,872.88	19,042.68	-	-	43,915.56	-		43,915.56	TRAD	
400344-010	UNITED STATES-ISRAEL BINATIONAL SCIENCE FOUNDATION	BARSHIS, D.	2,143.36	13,170.67	-	-	15,314.03	2,297.11		17,611.14	TRAD	
100688-010	* NATIONAL SCIENCE FOUNDATION	BARSHIS, D.	8,056.63	5,682.34	-	1,927.52	15,666.49	3,572.13		19,238.62	TRAD	
100603-010	NATIONAL SCIENCE FOUNDATION	BARTOL, I.	32,969.53	13,403.21	-	-	46,372.74	25,505.01		71,877.75	TRAD	
100610-010	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	BUTLER, M.	43,741.30	37,878.51	3,160.20	-	84,780.01	21,221.15		106,001.16	TRAD	
200214-011	FLORIDA FISH & WILDLIFE CONSERVATION COMMISSION	BUTLER, M.	6,010.41	2,183.92	10,000.00	-	18,194.33	2,130.53		20,324.86	TRAD	
200243-010	FLORIDA FISH & WILDLIFE CONSERVATION COMMISSION	BUTLER, M.	28,919.17	11,812.08	-	-	40,731.25	6,109.70		46,840.95	TRAD	
300379-010	UNIVERSITY OF FLORIDA	BUTLER, M.	14,127.99	9,429.53	-	-	23,557.52	6,124.95		29,682.47	TRAD	
100235-010	NATIONAL SCIENCE FOUNDATION	CARPENTER, K.	-	71.16	-	-	71.16	37.71		108.87	TRAD	
100688-010	* NATIONAL SCIENCE FOUNDATION	CARPENTER, K.	72,509.67	51,141.02	-	17,347.71	140,998.40	32,149.17		173,147.57	TRAD	
300461-010	ARIZONA STATE UNIVERSITY	CARPENTER, K.	12,802.54	50.00	-	-	12,852.54	7,068.90		19,921.44	TRAD	
400316-010	THE NATIONAL ACADEMIES	CARPENTER, K.	16,443.53	-	-	2,020.00	18,463.53	4,275.80		22,739.33	TRAD	
600185-010	WORLD CONSERVATION UNION (IUCN)	CARPENTER, K.	23,450.73	2,187.42	-	-	25,638.15	7,691.43		33,329.58	TRAD	
600190-010	WORLD CONSERVATION UNION (IUCN)	CARPENTER, K.	59,105.26	11,626.62	-	3,042.00	73,773.88	3,536.59		77,310.47	TRAD	
600207-010	WORLD CONSERVATION UNION (IUCN)	CARPENTER, K.	58,769.24	8,739.57	-	3,042.00	70,550.81	7,425.98		77,976.79	TRAD	
100550-020	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	DAINES, D.	16,702.91	21,764.30	-	-	38,467.21	20,387.62		58,854.83	TRAD	
100550-021	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	DAINES, D.	50,145.56	582.40	-	-	50,727.96	26,885.79		77,613.75	TRAD	
100550-030	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	DAINES, D.	104,326.10	35,829.15	-	-	140,155.25	74,282.30		214,437.55	TRAD	
300384-011	OLD DOMINION UNIVERSITY	DAUER, D.	5,171.56	-	-	52,268.36	57,439.92	6,205.50		63,645.42	TRAD	
300437-011	OLD DOMINION UNIVERSITY	DAUER, D.	175,370.96	20,714.49	-	-	196,085.45	17,991.51		214,076.96	TRAD	
300437-012	OLD DOMINION UNIVERSITY	DAUER, D.	75,316.93	-	-	-	75,316.93	7,531.68		82,848.61	TRAD	
400294-010	ELIZABETH RIVER PROJECT (LIVING RIVER RESTORATION)	DAUER, D.	-	2,000.00	-	5,640.67	7,640.67	-		7,640.67	TRAD	
200218-010	VA DEPARTMENT OF HEALTH	EGERTON, T.	369.25	55.64	-	-	424.89	36.93		461.82	TRAD	
300384-013	OLD DOMINION UNIVERSITY	EGERTON, T.	1,564.24	382.02	-	28,737.12	30,683.38	3,068.42		33,751.80	TRAD	
300437-013	OLD DOMINION UNIVERSITY	EGERTON, T.	102,777.30	1,366.16	-	-	104,143.46	10,414.35		114,557.81	TRAD	
300438-010	OLD DOMINION UNIVERSITY	EGERTON, T.	28,898.80	4,243.07	-	-	33,141.87	2,889.88		36,031.75	TRAD	
100586-010	U.S. DEPARTMENT OF AGRICULTURE	GAFF, H.	3,732.81	(1,188.37)	-	-	2,544.44	-		2,544.44	TRAD	
100623-010	NON-DISCLOSED SPONSORS	GAFF, H.	41,235.80	5,000.00	-	1,603.43	47,839.23	15,308.56		63,147.79	TRAD	
100714-010	CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC)	GAFF, H.	-	528.44	-	-	528.44	290.64		819.08	TRAD	
100684-010	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	GAFF, H.	18,229.62	40,328.37	-	28,180.23	86,738.21	32,206.90		118,945.11	TRAD	
200200-010	* VA DEPARTMENT OF GAME AND INLAND FISHERIES	GAFF, H.	388.62	1,921.52	-	-	2,310.15	-		2,310.15	TRAD	
400330-010	* NATIONAL CAPITAL LYME DISEASE ASSOCIATION	GAFF, H.	-	500.00	-	-	500.00	-		500.00	TRAD	
400334-010	* NATIONAL CAPITAL LYME DISEASE ASSOCIATION	GAFF, H.	256.76	2,595.50	-	-	2,852.25	-		2,852.25	TRAD	
100684-010	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	GAUTHIER, D.	5,468.89	12,098.51	-	8,454.07	26,021.46	9,662.07		35,683.53	TRAD	
200200-010	* VA DEPARTMENT OF GAME AND INLAND FISHERIES	GAUTHIER, D.	1,165.87	5,764.57	-	-	6,930.44	-		6,930.44	TRAD	
300387-010	VA INSTITUTE OF MARINE SCIENCE (VIMS)	GAUTHIER, D.	1,499.01	2,743.81	-	-	4,242.82	-		4,242.82	TRAD	
200212-010	VA DEPARTMENT OF AGRICULTURE	HORTH, L.	7,102.28	9,514.95	-	-	16,617.23	-		16,617.23	TRAD	
200239-010	VA DEPARTMENT OF AGRICULTURE	HORTH, L.	5,699.57	12,189.11	-	-	17,888.68	-		17,888.68	TRAD	
200264-010	VA DEPARTMENT OF AGRICULTURE	HORTH, L.	5,454.25	14,408.44	-	-	19,862.69	-		19,862.69	TRAD	
400268-010	VIRGINIA STATE BEEKEEPERS ASSOCIATION	HORTH, L.	-	928.00	-	-	928.00	-		928.00	TRAD	

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
100684-010	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HYNES, W.	12,760.73	28,229.86	-	19,726.16	60,716.75	22,544.83		83,261.58	TRAD
400330-010	* NATIONAL CAPITAL LYME DISEASE ASSOCIATION	HYNES, W.	-	500.00	-	-	500.00	-		500.00	TRAD
400334-010	* NATIONAL CAPITAL LYME DISEASE ASSOCIATION	HYNES, W.	599.10	6,056.16	-	-	6,655.26	-		6,655.26	TRAD
400360-010	NATIONAL CAPITAL LYME DISEASE ASSOCIATION	HYNES, W.	-	866.44	-	-	866.44	-		866.44	TRAD
400366-010	NATIONAL CAPITAL LYME DISEASE ASSOCIATION	HYNES, W.	-	695.00	-	-	695.00	-		695.00	TRAD
100496-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	KRAJ, P.	21,710.81	25,532.54	-	-	47,243.35	25,038.98		72,282.33	TRAD
300400-010	SAN DIEGO STATE UNIVERSITY RESEARCH FOUNDATION	MAXWELL, S.	9,225.08	-	-	-	9,225.08	5,073.79		14,298.87	TRAD
400287-001	CALIFORNIA SEA GRANT	MAXWELL, S.	5,077.32	224.49	-	-	5,301.81	2,916.00		8,217.81	TRAD
400287-002	CALIFORNIA SEA GRANT	MAXWELL, S.	-	-	-	18,230.94	18,230.94	-		18,230.94	TRAD
400302-010	JEFFRESS RESEARCH GRANTS PROGRAM	MAXWELL, S.	28,287.13	11,880.77	-	9,551.00	49,718.90	-		49,718.90	TRAD
400304-010	ALFRED P. SLOAN FOUNDATION	MAXWELL, S.	10,538.80	4,150.29	-	-	14,689.09	-		14,689.09	TRAD
400339-010	PEW CHARITABLE TRUSTS	MAXWELL, S.	12,512.40	18,174.00	-	-	30,686.40	3,068.64		33,755.04	TRAD
100671-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	NEELAKANTA, G.	43,640.25	12,091.78	-	-	55,732.03	30,652.61		86,384.65	TRAD
100555-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	OSGOOD, C.	1,485.75	336.58	194.80	-	2,017.13	1,002.28		3,019.41	TRAD
100585-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	OSGOOD, C.	6,971.04	1,001.05	-	-	7,972.09	4,384.65		12,356.74	TRAD
100671-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	SULTANA, H.	29,093.50	8,061.19	-	-	37,154.69	20,435.08		57,589.76	TRAD
100542-010	NATIONAL SCIENCE FOUNDATION	WALTERS, E.	51,923.22	7,854.92	-	30,857.67	90,635.81	15,542.32		106,178.13	TRAD
400325-010	COASTAL VIRGINIA WILDLIFE OBSERVATORY	WALTERS, E.	4,998.83	-	-	-	4,998.83	-		4,998.83	TRAD
400336-010	VIRGINIA ACADEMY OF SCIENCE	WALTERS, E.	-	1,250.00	-	-	1,250.00	-		1,250.00	TRAD
			1,293,932.29	509,607.76	13,355.00	230,628.87	2,047,523.92	487,548.19	-	2,535,072.11	23.81%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Center for Coastal Physical Oceanography											
300385-010	STATE UNIVERSITY OF NEW JERSEY (ALL CAMPUSES)	ATKINSON, L.	(5,181.56)	4,041.25	-	-	(1,140.31)	(627.17)		(1,767.48)	TRAD
300385-020	STATE UNIVERSITY OF NEW JERSEY (ALL CAMPUSES)	ATKINSON, L.	80,297.69	31,937.65	-	-	112,235.34	61,729.45		173,964.79	TRAD
300451-010	UNIVERSITY OF RHODE ISLAND	ATKINSON, L.	16,821.08	-	-	-	16,821.08	9,251.59		26,072.67	TRAD
100341-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	BESKOK, A.	-	0.54	-	-	0.54	0.29		0.83	TRAD
300273-010	VA INSTITUTE OF MARINE SCIENCE (VIMS)	COVI, M.	-	406.00	-	-	406.00	215.18		621.18	TRAD
100493-010	* U.S. ENVIRONMENTAL PROTECTION AGENCY	DINNIMAN, M.	202.55	-	-	-	202.55	20.26		222.80	TRAD
100598-010	* NATIONAL SCIENCE FOUNDATION	DINNIMAN, M.	8,733.05	875.55	-	-	9,608.59	5,284.73		14,893.32	TRAD
100660-010	LOS ALAMOS NATIONAL LABORATORIES	DINNIMAN, M.	20,598.83	-	-	-	20,598.83	11,329.36		31,928.19	TRAD
100686-010	* NATIONAL SCIENCE FOUNDATION	DINNIMAN, M.	12,164.06	-	-	-	12,164.06	6,690.24		18,854.30	TRAD
100662-010	NATIONAL SCIENCE FOUNDATION	DINNIMAN, M.	10,447.10	-	-	-	10,447.10	5,745.91		16,193.01	TRAD
100511-010	NASA/HEADQUARTERS	HAMILTON, B.	19,539.00	3,543.95	-	61,515.70	84,598.65	12,233.96		96,832.61	TRAD
100527-020	NASA GODDARD SPACEFLIGHT CENTER	HAMILTON, B.	4,392.95	-	-	-	4,392.95	-		4,392.95	TRAD
100577-010	NATIONAL SCIENCE FOUNDATION	HAMILTON, B.	29,800.16	6,099.24	-	-	35,899.40	19,744.67		55,644.07	TRAD
100589-010	NASA GODDARD SPACEFLIGHT CENTER	HAMILTON, B.	11,580.07	2,821.56	-	-	14,401.63	7,920.90		22,322.53	TRAD
100657-010	NASA GODDARD SPACEFLIGHT CENTER	HAMILTON, B.	326.16	3,800.94	-	-	4,127.10	2,269.90		6,397.00	TRAD
100687-010	NASA/HEADQUARTERS	HAMILTON, B.	19,936.41	12,166.31	-	-	32,102.72	17,656.50		49,759.22	TRAD
300372-010	UNIVERSITY OF COLORADO	HAMILTON, B.	-	1,168.33	-	-	1,168.33	619.21		1,787.54	TRAD
100477-010	* NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	HOFMANN, E.	75.65	-	-	8,975.88	9,051.53	18.91		9,070.44	TRAD
100539-010	* NATIONAL SCIENCE FOUNDATION	HOFMANN, E.	7,018.85	8,195.99	-	-	15,214.83	8,063.87		23,278.70	TRAD
100667-010	NATIONAL SCIENCE FOUNDATION	HOFMANN, E.	-	-	-	14,169.51	14,169.51	-		14,169.51	TRAD
100686-010	* NATIONAL SCIENCE FOUNDATION	HOFMANN, E.	12,164.06	-	-	-	12,164.06	6,690.24		18,854.30	TRAD
200249-011	HAMPTON ROADS SANITATION DISTRICT COMMISSION	HOFMANN, E.	23,703.61	-	-	-	23,703.61	2,370.38		26,073.99	TRAD
300279-010	PENNSYLVANIA STATE UNIVERSITY	HOFMANN, E.	4,650.25	-	-	-	4,650.25	2,464.63		7,114.88	TRAD
300322-010	UNIVERSITY OF SOUTHERN MISSISSIPPI	HOFMANN, E.	46,969.13	-	-	-	46,969.13	24,893.63		71,862.76	TRAD
300399-010	VA INSTITUTE OF MARINE SCIENCE (VIMS)	HOFMANN, E.	37,138.22	336.74	-	-	37,474.96	20,611.23		58,086.19	TRAD
600212-010	ASIA-PACIFIC NETWORK FOR GLOBAL CHANGE RESEARCH	HOFMANN, E.	-	-	-	24,301.24	24,301.24	-		24,301.24	TRAD
100493-010	* U.S. ENVIRONMENTAL PROTECTION AGENCY	KLINCK, J.	202.55	-	-	-	202.55	20.26		222.80	TRAD
100598-010	* NATIONAL SCIENCE FOUNDATION	KLINCK, J.	8,733.05	875.55	-	-	9,608.59	5,284.73		14,893.32	TRAD
100660-010	LOS ALAMOS NATIONAL LABORATORIES	KLINCK, J.	8,580.31	-	-	-	8,580.31	4,719.17		13,299.48	TRAD
100539-010	* NATIONAL SCIENCE FOUNDATION	ST- LAURENT, P.	7,018.85	8,195.99	-	-	15,214.83	8,063.87		23,278.70	TRAD
			385,912.05	84,465.56	-	108,962.32	579,339.93	243,285.86	-	822,625.79	41.99%
Center for Coastal Physical Oceanography - MARI											
100565-010	U.S. FISH AND WILDLIFE SERVICES	PLAG, H.	31,178.73	8,349.81	-	18,367.24	57,895.78	-		57,895.78	MARI
100678-010	NASA/HEADQUARTERS	PLAG, H.	12,500.62	972.04	-	32,633.84	46,106.50	3,502.90		49,609.40	MARI
			43,679.35	9,321.85	-	51,001.08	104,002.28	3,502.90	-	107,505.18	3.37%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Chemistry and Biochemistry											
100646-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	BAYSE, C.	49,823.24	1,548.42	-	10,716.00	62,087.66	28,254.43		90,342.09	TRAD
100664-010	* NATIONAL SCIENCE FOUNDATION	BAYSE, C.	4,246.15	1,874.80	-	15,900.00	22,020.95	3,366.52		25,387.47	TRAD
100456-010	NASA GODDARD SPACEFLIGHT CENTER	BERNATH, P.	-	-	-	(0.01)	(0.01)	-		(0.01)	TRAD
100456-010	NASA GODDARD SPACEFLIGHT CENTER	BERNATH, P.	20,801.44	-	-	-	20,801.44	11,024.77		31,826.21	TRAD
100465-010	NASA GODDARD SPACEFLIGHT CENTER	BERNATH, P.	110,544.93	7,031.75	-	-	117,576.68	62,315.68		179,892.36	TRAD
100584-010	NASA GODDARD SPACEFLIGHT CENTER	BERNATH, P.	89,916.99	11,390.99	-	-	101,307.98	55,719.39		157,027.37	TRAD
100611-010	NASA GODDARD SPACEFLIGHT CENTER	BERNATH, P.	59,938.36	7,989.52	-	-	67,927.88	37,360.31		105,288.19	TRAD
100698-010	NASA/HEADQUARTERS	BERNATH, P.	-	648.67	-	-	648.67	356.77		1,005.44	TRAD
300275-010	OLD DOMINION UNIVERSITY	BERNATH, P.	35,813.63	5,812.53	-	-	41,626.16	22,061.87		63,688.03	TRAD
300384-010	OLD DOMINION UNIVERSITY	DONAT, J.	9,004.57	25,126.81	-	78,477.69	112,609.07	6,285.11		118,894.18	TRAD
300437-010	OLD DOMINION UNIVERSITY	DONAT, J.	323,953.72	156,112.93	-	-	480,066.65	39,848.06		519,914.71	TRAD
100627-010	* U.S. DEPARTMENT OF AGRICULTURE	GREENE, L.	20,370.82	10,162.37	-	-	30,533.18	13,086.52		43,619.70	TRAD
300440-010	VIRGINIA ACADEMY OF SCIENCE	GREENE, L.	-	381.44	-	-	381.44	-		381.44	TRAD
100513-010	NATIONAL SCIENCE FOUNDATION	HATCHER, P.	-	1,233.19	-	-	1,233.19	653.59		1,886.78	TRAD
100523-010	NATIONAL SCIENCE FOUNDATION	HATCHER, P.	19,980.77	1,051.51	-	-	21,032.28	11,147.11		32,179.39	TRAD
100597-010	NATIONAL SCIENCE FOUNDATION	HATCHER, P.	69,629.25	9,468.96	-	11,757.00	90,855.21	43,504.03		134,359.24	TRAD
100693-010	OAK RIDGE NATIONAL LABORATORY	HATCHER, P.	8,498.13	-	-	-	8,498.13	4,673.97		13,172.10	TRAD
300006-010	UNIVERSITY OF MAINE	HATCHER, P.	4,571.46	1,886.94	-	0.03	6,458.43	1,937.52		8,395.95	TRAD
300323-010	TEXAS A&M UNIVERSITY	HATCHER, P.	60,659.24	14,826.26	-	-	75,485.50	40,007.32		115,492.82	TRAD
300464-010	TEXAS A&M UNIVERSITY	HATCHER, P.	30,516.55	360.70	-	-	30,877.25	16,982.49		47,859.74	TRAD
300466-010	UNIVERSITY OF MAINE	HATCHER, P.	12,351.59	226.00	-	-	12,577.59	5,390.37		17,967.96	TRAD
100452-010	NATIONAL SCIENCE FOUNDATION	HOLDER, A.	5,365.33	3,313.51	-	-	8,678.84	4,599.79		13,278.63	TRAD
100664-010	* NATIONAL SCIENCE FOUNDATION	HOLDER, A.	2,830.77	1,249.86	-	10,600.00	14,680.63	2,244.35		16,924.98	TRAD
100718-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HOLDER, A.	837.63	-	-	-	837.63	67.01		904.64	TRAD
300455-010	* UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER	HOLDER, A.	-	4,353.97	-	-	4,353.97	-		4,353.97	TRAD
300455-020	* UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER	HOLDER, A.	403.05	7,346.93	-	-	7,749.98	-		7,749.98	TRAD
100627-010	* U.S. DEPARTMENT OF AGRICULTURE	LEE, J.	47,531.90	23,712.19	-	-	71,244.10	30,535.21		101,779.31	TRAD
100637-010	U.S. GEOLOGICAL SURVEY	MAO, J.	3,256.56	3,835.97	-	-	7,092.53	-		7,092.53	TRAD
100681-010	NATIONAL SCIENCE FOUNDATION	MAO, J.	7,247.45	1,426.65	-	-	8,674.10	4,770.76		13,444.86	TRAD
100512-010	* NATIONAL SCIENCE FOUNDATION	MOPPER, K.	17,459.08	733.37	-	-	18,192.45	9,641.99		27,834.45	TRAD
100512-012	NATIONAL SCIENCE FOUNDATION	MOPPER, K.	-	-	-	2,252.89	2,252.89	-		2,252.89	TRAD
100512-020	* NATIONAL SCIENCE FOUNDATION	MOPPER, K.	6,810.68	408.01	-	-	7,218.69	3,825.90		11,044.59	TRAD
100512-021	NATIONAL SCIENCE FOUNDATION	MOPPER, K.	-	2,677.78	-	-	2,677.78	1,419.22		4,097.00	TRAD
100556-010	NATIONAL SCIENCE FOUNDATION	POUTSMA, J.	6,322.29	-	-	-	6,322.29	3,350.81		9,673.10	TRAD
300355-010	COLLEGE OF WILLIAM AND MARY	POUTSMA, J.	10,450.58	-	-	-	10,450.58	6,030.97		16,481.55	TRAD
100606-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	PURCELL, E.	58,703.55	24,514.89	-	-	83,218.44	6,657.47		89,875.91	TRAD
100236-010	NATIONAL SCIENCE FOUNDATION	WANG, G.	2,869.52	6,256.04	-	-	9,125.56	4,836.55		13,962.11	TRAD
500301-010	BOEHRINGER INGELHEIM	WANG, G.	18,173.96	8,490.61	-	4.52	26,669.09	-		26,669.09	TRAD
100555-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	XU, N.	28,229.24	6,394.98	3,701.24	-	38,325.46	19,043.31		57,368.77	TRAD
100585-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	XU, N.	27,884.17	4,004.21	-	-	31,888.38	17,538.59		49,426.97	TRAD
100254-010	NATIONAL SCIENCE FOUNDATION	XU, N.	-	645.11	-	-	645.11	341.91		987.02	TRAD
100254-012	NATIONAL SCIENCE FOUNDATION	XU, N.	-	661.01	-	-	661.01	171.86		832.87	TRAD
100254-013	NATIONAL SCIENCE FOUNDATION	XU, N.	-	-	-	4,522.16	4,522.16	-		4,522.16	TRAD
100490-010	NATIONAL SCIENCE FOUNDATION	XU, N.	44,686.26	10,016.76	3,896.03	-	58,599.05	28,992.58		87,591.63	TRAD
100490-020	NATIONAL SCIENCE FOUNDATION	XU, N.	-	32.46	-	2,727.84	2,760.30	-		2,760.30	TRAD
100490-030	NATIONAL SCIENCE FOUNDATION	XU, N.	-	-	-	19,568.49	19,568.49	-		19,568.49	TRAD
100585-011	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	XU, N.	10,760.72	-	-	-	10,760.72	5,918.41		16,679.13	TRAD
			1,230,443.57	367,208.10	7,597.27	156,526.61	1,761,775.55	553,962.53	-	2,315,738.08	31.44%
Chemistry and Biochemistry- ARC											
200272-010	* CENTER FOR INNOVATIVE TECHNOLOGY	RAMJEE, B.	-	196.50	-	-	196.50	58.95		255.46	TRAD
100495-010	* NATIONAL SCIENCE FOUNDATION	RAMJEE, B.	-	66.41	-	-	66.41	35.20		101.61	TRAD

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT
(MEASURED BY EXPENDITURES INCURRED)
FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
			-	262.92	-	-	262.92	94.15	-	357.07	35.81%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Computer Sciences											
100483-010	* NATIONAL SCIENCE FOUNDATION	CHERNIKOV, A.	16,256.28	3,727.57	-	-	19,983.86	10,591.45		30,575.30	TRAD
400303-010	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	CHERNIKOV, A.	12,113.65	-	-	6,889.07	19,002.72	2,441.16		21,443.88	TRAD
400303-020	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	CHERNIKOV, A.	22,636.81	-	-	5,128.93	27,765.74	1,001.80		28,767.54	TRAD
500268-002	* ENGILITY	CHERNIKOV, A.	6,227.62	-	-	-	6,227.62	3,425.19		9,652.82	TRAD
100558-010	LANGLEY RESEARCH CENTER	CHRISOCHOIDES, N.	92,002.34	3,149.60	-	75,243.96	170,395.90	52,333.55		222,729.45	TRAD
300042-010	COLLEGE OF WILLIAM AND MARY	CHRISOCHOIDES, N.	-	(8,309.13)	-	-	(8,309.13)	(4,154.56)		(12,463.69)	TRAD
500268-002	* ENGILITY	CHRISOCHOIDES, N.	12,643.97	-	-	-	12,643.97	6,954.18		19,598.14	TRAD
100483-010	* NATIONAL SCIENCE FOUNDATION	CHRISOCHOIDES, N.	31,556.32	7,235.88	-	-	38,792.19	20,559.86		59,352.06	TRAD
100689-010	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	GUPTA, A.	9,442.47	694.12	-	14,652.35	24,788.94	810.93		25,599.87	TRAD
100532-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HE, J.	50,972.64	1,704.57	-	-	52,677.21	28,972.47		81,649.69	TRAD
100468-010	* NATIONAL SCIENCE FOUNDATION	HE, J.	73,198.70	1,438.46	-	-	74,637.15	39,557.69		114,194.84	TRAD
100468-010	* NATIONAL SCIENCE FOUNDATION	JI, S.	29,279.48	575.38	-	-	29,854.86	15,823.08		45,677.94	TRAD
100186-010	NATIONAL SCIENCE FOUNDATION	LI, Y.	7,127.11	1,183.13	-	-	8,310.24	4,155.13		12,465.37	TRAD
100186-011	NATIONAL SCIENCE FOUNDATION	LI, Y.	-	-	-	2,500.00	2,500.00	-		2,500.00	TRAD
100527-023	NASA GODDARD SPACEFLIGHT CENTER	LI, Y.	2,670.68	-	-	-	2,670.68	-		2,670.68	TRAD
600202-010	ACHARYA INSTITUTE OF TECHNOLOGY	MALY, K.	9,226.43	10,425.04	-	544.95	20,196.42	-		20,196.42	TRAD
100467-010	NATIONAL SCIENCE FOUNDATION	NADEEM, T.	39,344.58	2,413.51	-	2,845.50	44,603.59	22,131.81		66,735.40	TRAD
100507-010	* NATIONAL SCIENCE FOUNDATION	NADEEM, T.	324.26	-	-	-	324.26	171.86		496.11	TRAD
100552-010	* NATIONAL SCIENCE FOUNDATION	NELSON, M.	44,940.32	68.60	-	3,302.13	48,311.04	23,854.74		72,165.78	TRAD
100676-010	* NATIONAL ENDOWMENT FOR THE HUMANITIES	NELSON, M.	6,980.09	1,301.69	-	-	8,281.78	4,554.98		12,836.75	TRAD
600191-010	INTERNATIONAL INTERNET PRESERVATION CONSORTIUM	NELSON, M.	-	-	-	1,006.16	1,006.16	-		1,006.16	TRAD
100485-010	* NATIONAL ENDOWMENT FOR THE HUMANITIES	NELSON, M.	8,049.69	3,087.53	-	7,755.87	18,893.09	5,902.73		24,795.81	TRAD
100519-010	* INSTITUTE OF MUSEUM AND LIBRARY SERVICES	NELSON, M.	32,851.95	-	-	15,000.00	47,851.95	17,411.53		65,263.48	TRAD
300380-010	* OLD DOMINION UNIVERSITY	NELSON, M.	44,326.56	11,447.14	-	40,097.95	95,871.64	-		95,871.64	TRAD
100554-010	* NATIONAL SCIENCE FOUNDATION	RANJAN, D.	21,274.72	1,581.13	-	-	22,855.84	12,113.60		34,969.44	TRAD
400110-015	* JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	RANJAN, D.	2,004.92	-	-	-	2,004.92	-		2,004.92	TRAD
400110-021	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	RANJAN, D.	3,443.48	-	-	-	3,443.48	-		3,443.48	TRAD
100468-010	* NATIONAL SCIENCE FOUNDATION	RANJAN, D.	21,959.61	431.54	-	-	22,391.15	11,867.31		34,258.45	TRAD
100718-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	RANJAN, D.	837.63	-	-	-	837.63	67.01		904.64	TRAD
600214-010	HUAWEI TECHNOLOGIES CO, LTD	WANG, C.	8,464.71	6,366.28	-	-	14,830.99	8,157.05		22,988.04	TRAD
100485-010	* NATIONAL ENDOWMENT FOR THE HUMANITIES	WEIGLE, M.	8,049.69	3,087.53	-	7,755.87	18,893.09	5,902.73		24,795.81	TRAD
100519-010	* INSTITUTE OF MUSEUM AND LIBRARY SERVICES	WEIGLE, M.	32,851.95	-	-	15,000.00	47,851.95	17,411.53		65,263.48	TRAD
100552-010	* NATIONAL SCIENCE FOUNDATION	WEIGLE, M.	44,940.32	68.60	-	3,302.13	48,311.04	23,854.74		72,165.78	TRAD
100676-010	* NATIONAL ENDOWMENT FOR THE HUMANITIES	WEIGLE, M.	6,980.09	1,301.69	-	-	8,281.78	4,554.98		12,836.75	TRAD
300380-010	* OLD DOMINION UNIVERSITY	WEIGLE, M.	44,326.56	11,447.14	-	40,097.95	95,871.64	-		95,871.64	TRAD
100554-010	* NATIONAL SCIENCE FOUNDATION	ZUBAIR, M.	21,274.72	1,581.13	-	-	22,855.84	12,113.60		34,969.44	TRAD
300384-015	OLD DOMINION UNIVERSITY	ZUBAIR, M.	(0.13)	-	-	-	(0.13)	(0.42)		(0.55)	TRAD
300437-015	OLD DOMINION UNIVERSITY	ZUBAIR, M.	8,551.31	-	-	-	8,551.31	855.13		9,406.44	TRAD
400110-015	* JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	ZUBAIR, M.	2,004.92	-	-	-	2,004.92	-		2,004.92	TRAD
500268-003	ENGILITY	ZUBAIR, M.	50,766.75	729.38	-	-	51,496.13	13,389.01		64,885.14	TRAD
100468-010	* NATIONAL SCIENCE FOUNDATION	ZUBAIR, M.	21,959.61	431.54	-	-	22,391.15	11,867.31		34,258.45	TRAD
			851,862.77	67,169.01	-	241,122.80	1,160,154.59	378,653.11	-	1,538,807.70	32.64%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Mathematics and Statistics											
100007-010	LANGLEY RESEARCH CENTER	BADAVI, F.	126,690.76	3,491.97	-	-	130,182.73	33,847.49		164,030.22	TRAD
100700-010	LANGLEY RESEARCH CENTER	BADAVI, F.	57,553.44	855.37	-	-	58,408.81	15,186.29		73,595.10	TRAD
300384-014	OLD DOMINION UNIVERSITY	CHAGANTY, R.	-	-	-	7,310.92	7,310.92	730.79		8,041.71	TRAD
300437-014	OLD DOMINION UNIVERSITY	CHAGANTY, R.	12,926.21	-	-	-	12,926.21	1,292.61		14,218.82	TRAD
100689-010	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	DIAWARA, N.	9,442.47	694.12	-	14,652.35	24,788.94	810.93		25,599.87	TRAD
200242-010	* VA DEPARTMENT OF MOTOR VEHICLES	DIAWARA, N.	6,076.48	8,282.98	-	8,396.19	22,755.65	3,733.46		26,489.10	TRAD
200257-010	* VA DEPARTMENT OF MOTOR VEHICLES	DIAWARA, N.	9,198.15	11,452.23	-	8,890.20	29,540.58	5,369.10		34,909.69	TRAD
400203-002	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	HU, F.	33,293.53	563.86	-	-	33,857.39	8,802.93		42,660.32	TRAD
400203-005	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	HU, F.	27,028.04	-	-	-	27,028.04	7,027.29		34,055.33	TRAD
400309-010	SIMONS FOUNDATION	JOO, S.	-	4,370.62	-	-	4,370.62	728.54		5,099.16	TRAD
400124-052	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	LUO, L.	3,118.50	-	-	11.08	3,129.58	-		3,129.58	TRAD
400347-011	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	LUO, L.	29,906.24	-	-	-	29,906.24	-		29,906.24	TRAD
600215-010	BEIJING COMPUTATIONAL SCIENCE RESEARCH CENTER	LUO, L.	11,111.12	-	-	-	11,111.12	2,888.88		14,000.00	TRAD
100243-010	NATIONAL SCIENCE FOUNDATION	PENG, Y.	13,508.12	11,495.32	-	-	25,003.44	13,251.83		38,255.27	TRAD
100480-010	* LANGLEY RESEARCH CENTER	TWEED	6,895.71	-	-	-	6,895.71	1,792.88		8,688.59	TRAD
100243-010	* NATIONAL SCIENCE FOUNDATION	WANG, J.	1,158.88	6,319.04	-	-	7,477.92	3,963.30		11,441.22	TRAD
100501-010	* NATIONAL SCIENCE FOUNDATION	WANG, J.	6,565.59	3,285.55	-	-	9,851.13	5,221.10		15,072.24	TRAD
100480-010	* LANGLEY RESEARCH CENTER	WILSON, J.	131,018.47	-	-	-	131,018.47	34,064.79		165,083.26	TRAD
100685-010	ARMY RESEARCH OFFICE	YAMALEEV, N.	52,205.54	3,377.24	1,355.17	-	56,937.95	30,570.54		87,508.49	TRAD
100564-010	NATIONAL SCIENCE FOUNDATION	ZHOU, R.	17,421.56	3,311.11	-	-	20,732.67	11,402.96		32,135.63	TRAD
			555,118.80	57,499.41	1,355.17	39,260.74	653,234.13	180,685.71	-	833,919.83	27.66%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Ocean, Earth and Atmospheric Sciences											
100666-010	NATIONAL SCIENCE FOUNDATION	ABDALA, Z.	-	-	-	20,889.01	20,889.01	-	-	20,889.01	TRAD
100225-010	NATIONAL SCIENCE FOUNDATION	BOCHDANSKY, A.	-	94.90	-	-	94.90	50.30	-	145.20	TRAD
100225-010	NATIONAL SCIENCE FOUNDATION	BOCHDANSKY, A.	12,142.63	353.65	-	-	12,496.28	6,623.03	-	19,119.31	TRAD
100536-010	NATIONAL SCIENCE FOUNDATION	BURDIGE, D.	30,788.19	5,609.93	-	93,023.81	129,421.93	20,018.96	-	149,440.89	TRAD
100608-010	* NATIONAL SCIENCE FOUNDATION	BURDIGE, D.	60,733.19	28,923.96	18,403.67	-	108,060.81	49,311.44	-	157,372.25	TRAD
100530-010	NATIONAL SCIENCE FOUNDATION	CHAPPELL, P.	40,100.07	5,812.22	-	-	45,912.29	24,333.51	-	70,245.80	TRAD
100547-010	NATIONAL SCIENCE FOUNDATION	CHAPPELL, P.	11,763.95	16,253.36	-	-	28,017.31	14,849.18	-	42,866.49	TRAD
100666-010	NATIONAL SCIENCE FOUNDATION	CHAPPELL, P.	-	-	-	20,338.47	20,338.47	-	-	20,338.47	TRAD
200188-030	* OLD DOMINION UNIVERSITY	COVI, M.	468.05	2,812.05	-	3,124.42	6,404.52	262.41	-	6,666.92	TRAD
200246-010	* CITY OF VIRGINIA BEACH	COVI, M.	4,735.34	101.22	-	-	4,836.56	1,257.51	-	6,094.06	TRAD
300366-010	* UNIVERSITY OF NORTH CAROLINA	COVI, M.	16,259.38	2,464.26	-	-	18,723.63	10,298.00	-	29,021.63	TRAD
100625-010	NATIONAL SCIENCE FOUNDATION	COVI, M.	8,406.12	1,961.38	-	-	10,367.50	5,702.12	-	16,069.62	TRAD
200238-010	CITY OF VIRGINIA BEACH	COVI, M.	14,240.43	349.71	-	-	14,590.14	3,793.43	-	18,383.57	TRAD
300273-011	VA INSTITUTE OF MARINE SCIENCE (VIMS)	COVI, M.	41,526.58	5,008.82	-	-	46,535.40	-	-	46,535.40	TRAD
400317-010	ELIZABETH RIVER PROJECT (LIVING RIVER RESTORATION)	COVI, M.	12,984.38	-	-	-	12,984.38	-	3,375.94	16,360.32	TRAD
100257-010	NATIONAL SCIENCE FOUNDATION	CUTTER, G.	98,996.75	7,493.50	-	1,139.26	107,629.51	56,439.84	-	164,069.35	TRAD
100484-010	NATIONAL SCIENCE FOUNDATION	CUTTER, G.	36,092.83	9,513.58	-	-	45,606.41	24,171.41	-	69,777.82	TRAD
100649-010	NATIONAL SCIENCE FOUNDATION	CUTTER, G.	18,969.12	77.59	29,345.00	-	48,391.71	10,475.69	-	58,867.40	TRAD
100677-010	NATIONAL SCIENCE FOUNDATION	CUTTER, G.	8,608.19	2,473.03	6,900.00	-	17,981.22	6,094.68	-	24,075.90	TRAD
400349-010	SAN FRANCISCO ESTUARY INSTITUTE	CUTTER, G.	2,740.51	1,000.70	-	-	3,741.21	2,057.66	-	5,798.87	TRAD
200220-010	VA WATER RESOURCES RESEARCH CENTER	DOBBS, F.	-	198.04	-	-	198.04	-	-	198.04	TRAD
100501-010	* NATIONAL SCIENCE FOUNDATION	DOBBS, F.	6,060.54	3,032.81	-	-	9,093.36	4,819.48	-	13,912.83	TRAD
100252-010	* NATIONAL SCIENCE FOUNDATION	GEORGEN, J.	62,990.13	12,309.45	-	10,797.24	86,096.82	39,908.76	-	126,005.58	TRAD
100616-010	NATIONAL SCIENCE FOUNDATION	GEORGEN, J.	-	-	13,898.03	-	13,898.03	-	-	13,898.03	TRAD
100651-010	NATIONAL SCIENCE FOUNDATION	GEORGEN, J.	3,261.28	47.00	-	-	3,308.28	1,819.55	-	5,127.83	TRAD
100527-025	NASA GODDARD SPACEFLIGHT CENTER	HALE, R.	2,840.88	-	-	-	2,840.88	-	-	2,840.88	TRAD
100511-010	NASA/HEADQUARTERS	HAMILTON, B.	19,539.00	3,543.95	-	61,515.70	84,598.65	12,233.96	-	96,832.61	TRAD
100527-020	NASA GODDARD SPACEFLIGHT CENTER	HAMILTON, B.	4,392.95	-	-	-	4,392.95	-	-	4,392.95	TRAD
100577-010	NATIONAL SCIENCE FOUNDATION	HAMILTON, B.	29,800.16	6,099.24	-	-	35,899.40	19,744.67	-	55,644.07	TRAD
100589-010	NASA GODDARD SPACEFLIGHT CENTER	HAMILTON, B.	11,580.07	2,821.56	-	-	14,401.63	7,920.90	-	22,322.53	TRAD
100657-010	NASA GODDARD SPACEFLIGHT CENTER	HAMILTON, B.	326.16	3,800.94	-	-	4,127.10	2,269.90	-	6,397.00	TRAD
100687-010	NASA/HEADQUARTERS	HAMILTON, B.	19,936.41	12,166.31	-	-	32,102.72	17,656.50	-	49,759.22	TRAD
300372-010	UNIVERSITY OF COLORADO	HAMILTON, B.	-	1,168.33	-	-	1,168.33	619.21	-	1,787.54	TRAD
100540-010	NORTH PACIFIC RESEARCH BOARD	HARVEY, R.	8,440.46	8,215.87	-	-	16,656.33	8,827.85	-	25,484.18	TRAD
100615-010	NATIONAL SCIENCE FOUNDATION	HARVEY, R.	42,656.27	3,098.22	-	-	45,754.49	25,164.96	-	70,919.45	TRAD
100655-010	* NATIONAL SCIENCE FOUNDATION	HARVEY, R.	8,630.30	-	-	40,058.73	48,689.03	4,746.67	-	53,435.70	TRAD
300233-010	UNIVERSITY OF TEXAS AT AUSTIN	HARVEY, R.	12,084.00	599.01	9,966.87	-	22,649.88	6,341.39	-	28,991.27	TRAD
600198-020	STANTEC	HARVEY, R.	6,259.93	9,588.23	-	-	15,848.16	8,716.49	-	24,564.65	TRAD
200231-010	VA MARINE RESOURCES COMMISSION (VMRC)	JONES, C.	54,447.72	3,112.32	-	-	57,560.04	14,390.01	-	71,950.05	TRAD
200255-010	VA MARINE RESOURCES COMMISSION (VMRC)	JONES, C.	155,306.51	7,764.55	-	-	163,071.06	40,767.78	-	203,838.84	TRAD
400312-010	ATLANTIC STATES MARINE FISHERIES COMMISSION	JONES, C.	-	-	-	63.07	63.07	34.58	-	97.65	TRAD

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT
(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
100464-010	NATIONAL SCIENCE FOUNDATION	MULHOLLAND, M.	11,796.09	158.15	-	-	11,954.24	6,335.75		18,289.99	TRAD
100512-011	NATIONAL SCIENCE FOUNDATION	MULHOLLAND, M.	-	-	-	3,995.00	3,995.00	-	3,995.00	TRAD	
200249-010	HAMPTON ROADS SANITATION DISTRICT COMMISSION	MULHOLLAND, M.	83,488.54	20,997.16	-	-	104,485.70	10,448.57		114,934.27	TRAD
300330-020	UNIVERSITY OF NEW HAMPSHIRE	MULHOLLAND, M.	2,423.36	106.50	-	-	2,529.86	1,340.83		3,870.69	TRAD
100512-010	* NATIONAL SCIENCE FOUNDATION	MULHOLLAND, M.	28,485.88	1,196.54	-	-	29,682.42	15,731.68		45,414.09	TRAD
100512-020	* NATIONAL SCIENCE FOUNDATION	MULHOLLAND, M.	11,112.15	665.70	-	-	11,777.85	6,242.27		18,020.12	TRAD
200249-011	* HAMPTON ROADS SANITATION DISTRICT COMMISSION	MULHOLLAND, M.	9,361.60	-	-	-	9,361.60	936.16		10,297.76	TRAD
100679-010	NATIONAL SCIENCE FOUNDATION	SCHMIDT, M.	59,816.31	1,736.00	-	-	61,552.31	33,853.77		95,406.08	TRAD
100712-010	NATIONAL SCIENCE FOUNDATION	SCHMIDT, M.	-	-	8,634.78	-	8,634.78	-		8,634.78	TRAD
100220-010	NATIONAL SCIENCE FOUNDATION	SEDWICK, P.	1,622.39	-	-	-	1,622.39	859.87		2,482.26	TRAD
100546-010	NATIONAL SCIENCE FOUNDATION	SEDWICK, P.	-	(1,020.10)	1,160.05	-	139.95	-		139.95	TRAD
100563-010	NATIONAL SCIENCE FOUNDATION	SEDWICK, P.	57,763.49	14,734.78	-	-	72,498.27	39,874.04		112,372.31	TRAD
100707-010	NATIONAL SCIENCE FOUNDATION	SEDWICK, P.	2,178.36	385.03	-	-	2,563.39	1,409.86		3,973.25	TRAD
200188-030	* OLD DOMINION UNIVERSITY	WHITTECAR, R.	702.08	4,167.52	-	4,686.62	9,556.22	389.57		9,945.79	TRAD
200188-040	* OLD DOMINION UNIVERSITY	WHITTECAR, R.	2,923.23	281.42	-	2,479.65	5,684.30	256.37		5,940.67	TRAD
300143-040	* OLD DOMINION UNIVERSITY	WHITTECAR, R.	53,800.72	9,815.72	-	1,381.25	64,997.69	3,180.82		68,178.51	TRAD
200183-040	* OLD DOMINION UNIVERSITY	WHITTECAR, R.	668.52	140.58	-	-	809.11	64.73		873.83	TRAD
300041-010	VA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	WHITTECAR, R.	21,258.73	6,565.11	-	-	27,823.84	9,738.34		37,562.18	TRAD
500048-010	WEANACK LAND LIMITED PARTNERS	WHITTECAR, R.	-	-	-	5,909.80	5,909.80	1,536.54		7,446.34	TRAD
500318-010	WEANACK LAND LIMITED PARTNERS	WHITTECAR, R.	6,026.09	2,237.69	-	-	8,263.78	2,148.59		10,412.37	TRAD
500300-010	* EXCET, INC.	ZIMMERMAN, R.	-	-	-	568.17	568.17	312.61		880.79	TRAD
100493-010	* U.S. ENVIRONMENTAL PROTECTION AGENCY	ZIMMERMAN, R.	202.55	-	-	-	202.55	20.26		222.80	TRAD
100608-010	* NATIONAL SCIENCE FOUNDATION	ZIMMERMAN, R.	60,733.19	28,923.96	18,403.67	-	108,060.81	49,311.44		157,372.25	TRAD
100656-010	* NASA GODDARD SPACEFLIGHT CENTER	ZIMMERMAN, R.	28,884.65	2,828.92	-	-	31,713.57	17,442.47		49,156.04	TRAD
			1,311,356.37	261,790.37	106,712.06	269,970.20	1,949,829.00	656,532.27	-	2,606,361.28	33.67%
Ocean, Earth and Atmospheric Sciences - SSRP											
100655-010	* NATIONAL SCIENCE FOUNDATION	FILIPPINO, K.	8,630.30	-	-	40,058.73	48,689.03	4,746.67		53,435.70	SSRP
200228-010	1 HAMPTON ROADS SANITATION DISTRICT COMMISSION	FILIPPINO, K.	12,492.61	4,678.65	-	0.08	17,171.34	4,293.32		21,464.66	SSRP
100656-010	* NASA GODDARD SPACEFLIGHT CENTER	HILL, V.	28,035.10	2,745.72	-	-	30,780.82	16,929.45		47,710.27	SSRP
100493-010	* U.S. ENVIRONMENTAL PROTECTION AGENCY	HILL, V.	202.55	-	-	-	202.55	20.26		222.80	SSRP
100604-010	NATIONAL SCIENCE FOUNDATION	HILL, V.	82,504.77	27,525.14	196,228.66	-	306,258.57	60,516.45		366,775.02	SSRP
400357-010	CONSORTIUM FOR OCEAN LEADERSHIP, INC.	HILL, V.	-	3,295.62	-	5,704.38	9,000.00	-	9,000.00	SSRP	
500300-010	* EXCET, INC.	HILL, V.	-	-	-	551.46	551.46	303.42		854.88	SSRP
			131,865.33	38,245.13	196,228.66	46,314.65	412,653.77	86,809.57	-	499,463.33	21.04%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Physics											
100388-140	* U.S. DEPARTMENT OF ENERGY	AMARYAN, M.	(23,961.65)	(1,374.25)	-	-	(25,335.90)	(12,667.95)		(38,003.85)	TRAD
100388-150	* U.S. DEPARTMENT OF ENERGY	AMARYAN, M.	109,334.75	9,723.43	4,989.71	-	124,047.89	65,482.00		189,529.89	TRAD
300348-010	* THE CATHOLIC UNIVERSITY OF AMERICA	AMARYAN, M.	-	-	37,698.00	-	37,698.00	-		37,698.00	TRAD
100472-010	* NATIONAL SCIENCE FOUNDATION	ARETI, H.	-	-	-	5,548.60	5,548.60	-	5,548.60	TRAD	
100652-010	* NATIONAL SCIENCE FOUNDATION	ARETI, H.	-	171.88	-	23,422.13	23,594.01	94.54		23,688.55	TRAD
100392-030	* U.S. DEPARTMENT OF ENERGY	BALITSKY, I.	20,681.11	1,538.96	-	1,521.00	23,741.06	11,776.64		35,517.70	TRAD
100388-140	* U.S. DEPARTMENT OF ENERGY	BUELTMANN, S.	(23,961.65)	(1,374.25)	-	-	(25,335.90)	(12,667.95)		(38,003.85)	TRAD
100388-150	* U.S. DEPARTMENT OF ENERGY	BUELTMANN, S.	96,471.84	8,579.49	4,402.69	-	109,454.02	57,778.23		167,232.25	TRAD
100472-010	* NATIONAL SCIENCE FOUNDATION	BUELTMANN, S.	-	-	-	1,849.53	1,849.53	-	1,849.53	TRAD	
100652-010	* NATIONAL SCIENCE FOUNDATION	BUELTMANN, S.	-	147.33	-	20,076.11	20,223.44	81.03		20,304.47	TRAD
100614-010	* NATIONAL SCIENCE FOUNDATION	CIOVATI, G.	15,787.20	5,556.14	1,026.80	3,537.60	25,907.74	5,549.27		31,457.00	TRAD
100387-020	* U.S. DEPARTMENT OF ENERGY	DELAYEN, J.	58,932.46	9,375.56	-	86,087.66	154,395.67	17,760.09		172,155.75	TRAD
100443-040	FERMI NATIONAL ACCELERATOR LABORATORY	DELAYEN, J.	48,557.25	34,254.01	-	1,517.17	84,328.43	21,530.94		105,859.37	TRAD
100492-010	* NATIONAL SCIENCE FOUNDATION	DELAYEN, J.	32,039.70	5,097.39	-	6,430.01	43,567.10	19,682.67		63,249.76	TRAD
100614-010	* NATIONAL SCIENCE FOUNDATION	DELAYEN, J.	11,840.40	4,167.11	770.10	2,653.20	19,430.80	4,161.95		23,592.75	TRAD
100703-010	FERMI NATIONAL ACCELERATOR LABORATORY	DELAYEN, J.	38,071.45	10,561.35	-	-	48,632.80	12,644.53		61,277.33	TRAD
100711-010	U.S. DEPARTMENT OF ENERGY	DELAYEN, J.	1,477.53	-	-	-	1,477.53	-		1,477.53	TRAD
400275-010	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	DELAYEN, J.	11,659.39	199.99	-	-	11,859.38	3,083.45		14,942.83	TRAD
400343-010	SOUTHERN UNIVERSITIES RESEARCH ASSOC (SURA)	DELAYEN, J.	63,458.28	7,486.47	10,485.60	1,350.00	82,780.35	39,019.61		121,799.96	TRAD
300442-010	* TEMPLE UNIVERSITY	DELAYEN, J.	3,747.70	-	-	2,211.00	5,958.70	2,061.23		8,019.93	TRAD
100388-140	* U.S. DEPARTMENT OF ENERGY	DODGE, G.	(23,674.69)	(1,357.79)	-	-	(25,032.48)	(12,516.24)		(37,548.72)	TRAD
100388-150	* U.S. DEPARTMENT OF ENERGY	DODGE, G.	109,334.75	9,723.43	4,989.71	-	124,047.89	65,482.00		189,529.89	TRAD
100652-010	* NATIONAL SCIENCE FOUNDATION	DODGE, G.	-	171.88	-	23,422.13	23,594.01	94.54		23,688.55	TRAD
300414-010	* OLD DOMINION UNIVERSITY	DODGE, G.	649.69	1,846.20	-	4.11	2,500.00	-		2,500.00	TRAD
100554-010	* NATIONAL SCIENCE FOUNDATION	GODUNOV, A.	21,274.72	1,581.13	-	-	22,855.84	12,113.60		34,969.44	TRAD
100387-020	* U.S. DEPARTMENT OF ENERGY	GUREVICH, A.	58,932.46	9,375.56	-	86,087.66	154,395.67	17,760.09		172,155.75	TRAD
100492-010	* NATIONAL SCIENCE FOUNDATION	GUREVICH, A.	32,039.70	5,097.39	-	6,430.01	43,567.10	19,682.67		63,249.76	TRAD
100614-010	* NATIONAL SCIENCE FOUNDATION	GUREVICH, A.	11,840.40	4,167.11	770.10	2,653.20	19,430.80	4,161.95		23,592.75	TRAD
100668-010	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	GUREVICH, A.	18,584.96	1,127.73	-	-	19,712.69	10,841.98		30,554.67	TRAD
300442-010	* TEMPLE UNIVERSITY	GUREVICH, A.	3,747.70	-	-	2,211.00	5,958.70	2,061.23		8,019.93	TRAD
100602-010	NATIONAL SCIENCE FOUNDATION	HAVEY, M.	62,863.33	19,913.68	-	16,154.00	98,931.01	45,527.36		144,458.37	TRAD
100388-140	* U.S. DEPARTMENT OF ENERGY	HYDE, C.	(23,961.65)	(1,374.25)	-	-	(25,335.90)	(12,667.95)		(38,003.85)	TRAD
100388-150	* U.S. DEPARTMENT OF ENERGY	HYDE, C.	109,334.75	9,723.43	4,989.71	-	124,047.89	65,482.00		189,529.89	TRAD
100429-010	BROOKHAVEN NATIONAL LABORATORY	HYDE, C.	(155.21)	-	-	-	(155.21)	(82.26)		(237.47)	TRAD
100697-010	BROOKHAVEN NATIONAL LABORATORY	HYDE, C.	10,525.16	-	-	-	10,525.16	2,736.53		13,261.69	TRAD
400110-020	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	HYDE, C.	54,798.09	-	-	1,847.18	56,645.27	-		56,645.27	TRAD
400124-050	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	HYDE, C.	183,656.29	-	-	-	183,656.29	-		183,656.29	TRAD
400347-010	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	HYDE, C.	510,132.84	-	-	-	510,132.84	-		510,132.84	TRAD
300348-010	* THE CATHOLIC UNIVERSITY OF AMERICA	HYDE, C.	-	-	37,698.00	-	37,698.00	-		37,698.00	TRAD
400346-010	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	HYDE, C.	166,556.37	-	-	-	166,556.37	-		166,556.37	TRAD

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
100650-010	NATIONAL SCIENCE FOUNDATION	KRAFFT, G.	-	-	-	2,290.12	2,290.12	-	-	2,290.12	TRAD
100704-010	NATIONAL SCIENCE FOUNDATION	KRAFFT, G.	-	-	-	5,907.66	5,907.66	-	-	5,907.66	TRAD
400320-010	AMERICAN PHYSICAL SOCIETY (APS)	KRAFFT, G.	-	-	-	13,572.51	13,572.51	-	-	13,572.51	TRAD
600217-010	TRIUMF	KRAFFT, G.	-	-	-	21,294.45	21,294.45	-	-	21,294.45	TRAD
100388-140	* U.S. DEPARTMENT OF ENERGY	KUHN, S.	(23,961.65)	(1,374.25)	-	-	(25,335.90)	(12,667.95)	-	(38,003.85)	TRAD
100388-150	* U.S. DEPARTMENT OF ENERGY	KUHN, S.	109,334.75	9,723.43	4,989.71	-	124,047.89	65,482.00	-	189,529.89	TRAD
300414-010	* OLD DOMINION UNIVERSITY	KUHN, S.	649.69	1,846.20	-	4.11	2,500.00	-	-	2,500.00	TRAD
100392-030	* U.S. DEPARTMENT OF ENERGY	RADYUSHKIN, A.	20,681.11	1,538.96	-	1,521.00	23,741.06	11,776.64	-	35,517.70	TRAD
100663-010	BROOKHAVEN NATIONAL LABORATORY	ROGERS, T.	23,059.27	-	-	-	23,059.27	5,995.40	-	29,054.67	TRAD
300444-010	OLD DOMINION UNIVERSITY	ROGERS, T.	12,858.42	2,049.98	-	3,538.00	18,446.40	8,199.60	-	26,646.00	TRAD
100392-030	* U.S. DEPARTMENT OF ENERGY	SCHIAVILLA, R.	20,681.11	1,538.96	-	1,521.00	23,741.06	11,776.64	-	35,517.70	TRAD
100527-015	NASA GODDARD SPACEFLIGHT CENTER	SUKENIK, C.	4,538.09	-	-	-	4,538.09	-	-	4,538.09	TRAD
400124-040	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	SUKENIK, C.	(7,746.94)	-	-	-	(7,746.94)	-	-	(7,746.94)	TRAD
400124-051	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	SUKENIK, C.	615.39	-	-	-	615.39	-	-	615.39	TRAD
100527-012	NASA GODDARD SPACEFLIGHT CENTER	TERZIC, B.	562.40	-	-	-	562.40	-	-	562.40	TRAD
100554-010	* NATIONAL SCIENCE FOUNDATION	TERZIC, B.	21,274.72	1,581.13	-	-	22,855.84	12,113.60	-	34,969.44	TRAD
100392-030	* U.S. DEPARTMENT OF ENERGY	VAN ORDEN, J.	20,681.11	1,538.96	-	1,521.00	23,741.06	11,776.64	-	35,517.70	TRAD
100535-010	U.S. DEPARTMENT OF ENERGY	VUSKOVIC, L.	59,869.50	13,636.08	-	-	73,505.58	38,957.97	-	112,463.55	TRAD
100388-140	* U.S. DEPARTMENT OF ENERGY	WEINSTEIN, L.	(23,961.65)	(1,374.25)	-	-	(25,335.90)	(12,667.95)	-	(38,003.85)	TRAD
100388-150	* U.S. DEPARTMENT OF ENERGY	WEINSTEIN, L.	109,334.75	9,723.43	4,989.71	-	124,047.89	65,482.00	-	189,529.89	TRAD
			2,119,085.42	194,534.69	117,799.86	346,183.13	2,777,603.10	662,272.30	-	3,439,875.39	23.84%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Psychology											
100242-010	* NATIONAL SCIENCE FOUNDATION	ASH, I.	2,898.89	3,303.07	-	899.98	7,101.94	3,287.04		10,388.97	TRAD
100619-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	BARRACO, C.	5,390.29	1,722.36	-	-	7,112.66	3,911.96		11,024.62	TRAD
500329-010	VR REHAB, INC.	BLISS, J.	29,953.62	-	-	-	29,953.62	16,474.49		46,428.11	TRAD
500330-010	VR REHAB, INC.	BLISS, J.	10,045.54	-	-	277.46	10,323.00	5,677.00		16,000.00	TRAD
500330-020	VR REHAB, INC.	BLISS, J.	3,658.71	-	-	-	3,658.71	-		3,658.71	TRAD
500331-010	VR REHAB, INC.	BLISS, J.	9,023.39	-	-	1,299.61	10,323.00	5,677.00		16,000.00	TRAD
500331-020	VR REHAB, INC.	BLISS, J.	3,658.71	-	-	-	3,658.71	-		3,658.71	TRAD
100521-010	* AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	BLISS, J.	46,992.27	14,588.57	2,763.00	5,014.80	69,358.64	6,034.22		75,392.86	TRAD
100626-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	BRAITMAN, A.	109,466.79	23,130.29	-	-	132,597.08	10,607.77		143,204.85	TRAD
100619-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	BRAITMAN, A.	5,390.29	1,722.36	-	-	7,112.66	3,911.96		11,024.62	TRAD
100690-010	NATIONAL SCIENCE FOUNDATION	CHEN, J.	31,806.48	2,278.38	-	-	34,084.86	18,746.68		52,831.54	TRAD
300377-010	* EASTERN VIRGINIA MEDICAL SCHOOL	CIGULAROV, K.	4,963.40	-	-	-	4,963.40	1,290.49		6,253.89	TRAD
100551-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HENSON, M.	69,602.98	2,658.27	-	228,079.40	300,340.65	38,298.45		338,639.09	TRAD
100551-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HERON, K.	3,866.83	147.68	-	12,671.08	16,685.59	2,127.69		18,813.28	TRAD
100619-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HERON, K.	19,251.04	6,151.30	-	-	25,402.34	13,971.29		39,373.63	TRAD
100521-010	* AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	HU, X.	46,992.27	14,588.57	2,763.00	5,014.80	69,358.64	6,034.22		75,392.86	TRAD
100551-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	KELLEY, M.	3,866.83	147.68	-	12,671.08	16,685.59	2,127.69		18,813.28	TRAD
100619-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	KELLEY, M.	3,080.17	984.21	-	-	4,064.37	2,235.41		6,299.78	TRAD
600208-010	REVELIAN PTY LTD	LANDERS, R.	2,872.44	7,005.00	-	2,707.23	12,584.67	6,921.37		19,506.04	TRAD
100619-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	LEWIS, R.	38,502.09	12,302.60	-	-	50,804.69	27,942.58		78,747.26	TRAD
100240-010	NATIONAL SCIENCE FOUNDATION	MAJOR, D.	594.00	-	-	-	594.00	314.82		908.82	TRAD
100570-010	NATIONAL SCIENCE FOUNDATION	MAJOR, D.	14,154.97	-	-	-	14,154.97	7,502.11		21,657.08	TRAD
100570-010	NATIONAL SCIENCE FOUNDATION	MAJOR, D.	22,176.12	-	-	-	22,176.12	11,753.33		33,929.45	TRAD
100673-010	* NATIONAL SCIENCE FOUNDATION	MAJOR, D.	4,141.64	1,124.19	-	-	5,265.83	2,896.21		8,162.04	TRAD
400205-010	CHILDREN'S HOSPITAL OF THE KING'S DAUGHTERS	PAULSON, J.	-	-	-	(2,024.87)	(2,024.87)	-		(2,024.87)	TRAD
300377-010	* EASTERN VIRGINIA MEDICAL SCHOOL	SCERBO, M.	4,963.40	-	-	-	4,963.40	1,290.49		6,253.89	TRAD
100527-011	NASA GODDARD SPACEFLIGHT CENTER	STILL, J.	-	801.35	-	-	801.35	-		801.35	TRAD
100619-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	WINSTEAD, B.	5,390.29	1,722.36	-	-	7,112.66	3,911.96		11,024.62	TRAD
100521-010	* AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	YAMANI, Y.	46,992.27	14,588.57	2,763.00	5,014.80	69,358.64	6,034.22		75,392.86	TRAD
200236-010	* VA DEPARTMENT OF MOTOR VEHICLES	YAMANI, Y.	7,181.54	2,317.71	-	-	9,499.24	2,469.81		11,969.05	TRAD
200237-010	* VA DEPARTMENT OF MOTOR VEHICLES	YAMANI, Y.	2,126.81	-	-	-	2,126.81	1,169.75		3,296.56	TRAD
200256-010	* VA DEPARTMENT OF MOTOR VEHICLES	YAMANI, Y.	14,900.76	8,455.13	-	-	23,355.89	6,072.53		29,428.41	TRAD
			573,904.83	119,739.64	8,289.00	271,625.37	973,558.84	218,692.52	-	1,192,251.36	22.46%
			\$ 8,497,160.79	\$ 1,709,844.43	\$ 451,337.02	\$ 1,761,595.77	\$ 12,419,938.01	\$ 3,472,039.11	\$ -	\$ 15,891,977.12	27.96%
TOTAL COLLEGE OF SCIENCES											

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS			
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	
OFFICE OF RESEARCH AND OTHER ACTIVITY												
Frank Reidy Research Center for Bioelectronics												
300427-910	1 PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	82,151.49	37,931.27	-	-	120,082.75	46,641.67		166,724.42	CBE	
500314-010	PULSE CENTERS	BEEBE, S.	11,026.17	23,542.80	-	-	34,568.97	19,012.94		53,581.91	CBE	
300427-010	* OLD DOMINION UNIVERSITY	BEEBE, S.	42,993.85	20,639.82	-	-	63,633.66	19,090.10		82,723.76	CBE	
300455-010	* UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER	BEEBE, S.	-	4,353.97	-	-	4,353.97	-		4,353.97	CBE	
300455-020	* UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER	BEEBE, S.	403.05	7,346.93	-	-	7,749.98	-		7,749.98	CBE	
500226-005	* PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	-	147.69	-	326.47	474.15	260.85		735.00	CBE	
500226-006	* PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	(460.38)	-	-	-	(460.38)	(253.21)		(713.59)	CBE	
500226-006	* PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	-	556.71	-	488.77	1,045.48	575.50		1,620.98	CBE	
500226-008	* PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	-	-	-	2,569.09	2,569.09	1,412.44		3,981.52	CBE	
600186-010	* UNIVERSITY OF SOUTHAMPTON	CHEN, H.	85,008.36	5,789.04	-	-	90,797.40	48,122.62		138,920.02	CBE	
100517-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	GUO, S.	22,733.51	10,753.15	-	-	33,486.67	17,747.93		51,234.60	CBE	
300427-010	* OLD DOMINION UNIVERSITY	GUO, S.	42,993.85	20,639.82	-	-	63,633.66	19,090.10		82,723.76	CBE	
300427-910	* PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	17,228.46	17,919.60	-	-	35,148.05	(72.42)		35,075.63	CBE	
500226-005	* PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	-	295.37	-	652.93	948.30	521.70		1,470.00	CBE	
500226-006	* PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	(197.31)	238.59	-	209.47	250.76	138.12		388.88	CBE	
500226-009	* PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	57,822.08	9,958.09	-	-	67,780.17	37,279.09		105,059.26	CBE	
500226-011	* PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	15,065.17	3,081.26	-	635.05	18,781.48	9,980.54		28,762.01	CBE	
500226-010	* PULSE BIOSCIENCES (ELECTROBLATE)	MURATORI, C.	64,104.01	15,759.70	-	-	79,863.71	43,925.04		123,788.74	CBE	
100548-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	PAKHOMOVA, O.	8,652.59	993.62	-	-	9,646.21	5,305.41		14,951.62	CBE	
300345-012	OLD DOMINION UNIVERSITY	PAKHOMOVA, O.	82,961.90	22,505.04	-	-	105,466.94	58,006.82		163,473.76	CBE	
500226-010	* PULSE BIOSCIENCES (ELECTROBLATE)	PAKHOMOVA, O.	27,473.15	6,754.16	-	-	34,227.30	18,825.02		53,052.32	CBE	
500366-010	* OLYMPUS CORPORATION OF THE AMERICAS	PAKHOMOVA, O.	-	146.85	-	-	146.85	80.77		227.61	CBE	
100458-010	* NATIONAL SCIENCE FOUNDATION	QIAN, S.	120.52	(68.49)	-	-	52.03	27.58		79.61	CBE	
100517-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	SCHOENBACH, K.	22,733.51	10,753.15	-	-	33,486.67	17,747.93		51,234.60	CBE	
100548-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	SEMENOV, I.	17,305.17	1,987.24	-	-	19,292.41	10,610.83		29,903.24	CBE	
400324-010	BREEDEN-ADAMS FOUNDATION	STACEY, M.	(85.00)	3,617.51	-	1,424.31	4,956.82	-		4,956.82	CBE	
100341-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	STACEY, M.	-	0.61	-	-	0.61	0.32		0.93	CBE	
500226-009	* PULSE BIOSCIENCES (ELECTROBLATE)	VERNIER, P.	57,822.08	9,958.09	-	-	67,780.17	37,279.09		105,059.26	CBE	
100474-010	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	VERNIER, T.	2,038.00	2,962.64	-	-	5,000.64	2,650.34		7,650.98	CBE	
300345-013	OLD DOMINION UNIVERSITY	VERNIER, T.	94,842.40	13,912.73	40,750.00	-	149,505.13	59,815.32		209,320.45	CBE	
			754,736.60	252,476.92	40,750.00	6,306.08	1,054,269.60	473,822.42	-	1,528,092.02	44.94%	

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Virginia Modeling, Analysis and Simulation Center - VMASC											
200266-010	VA DEPARTMENT OF CRIMINAL JUSTICE SERVICES	BARNES, J.	-	9,844.59	-	-	9,844.59	3,150.27		12,994.86	VMASC
100531-001	* NAVAL SEA SYSTEMS COMMAND	BARRACO, A.	14,759.61	-	-	-	14,759.61	9,593.75		24,353.35	VMASC
600201-010	* UNIVERSITY OF AGDER	BARRACO, A.	16,296.03	-	-	-	16,296.03	8,962.82		25,258.85	VMASC
200244-010	* VA PORT AUTHORITY	BEHR, J.	9,366.26	58.28	-	514.63	9,939.17	5,466.31		15,405.49	VMASC
300366-010	* UNIVERSITY OF NORTH CAROLINA	BEHR, J.	6,155.53	(58.03)	-	-	6,097.50	3,353.63		9,451.13	VMASC
100531-001	* NAVAL SEA SYSTEMS COMMAND	COLLINS, A.	15,206.87	-	-	-	15,206.87	9,884.47		25,091.33	VMASC
200244-011	* VA PORT AUTHORITY	COLLINS, A.	5,527.78	-	-	-	5,527.78	3,040.29		8,568.07	VMASC
300258-010	* UNIVERSITY OF MARYLAND	COLLINS, A.	1,111.16	190.72	-	-	1,301.88	690.00		1,991.88	VMASC
500338-010	* G2 OPS, INC.	CROLL, M.	7,301.51	-	-	-	7,301.51	4,015.83		11,317.34	VMASC
500342-001	* WR SYSTEMS, LTD.	CROLL, M.	6,933.62	300.00	-	-	7,233.62	4,701.86		11,935.48	VMASC
500362-010	* G2 OPS, INC.	CROLL, M.	1,935.66	-	-	-	1,935.66	1,064.61		3,000.27	VMASC
100710-010	* NAVAL SPEC WARFARE DEVELOPMENT GROUP	CVIJETIC, B.	7,392.58	850.03	-	-	8,242.62	5,357.70		13,600.32	VMASC
400351-010	* CENTER FOR MIND AND CULTURE	DIALLO, S.	65,767.88	2,003.67	-	-	67,771.55	10,165.74		77,937.29	VMASC
500341-001	* APPLIED RESEARCH ASSOCIATES, INC.	DIALLO, S.	33,582.55	-	-	-	33,582.55	18,470.41		52,052.96	VMASC
500354-010	CAMBER CORPORATION	DIALLO, S.	64,326.61	10,000.00	-	-	74,326.61	40,879.63		115,206.24	VMASC
600201-010	* UNIVERSITY OF AGDER	DIALLO, S.	16,296.03	-	-	-	16,296.03	8,962.82		25,258.85	VMASC
200245-010	VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	EZELL, B.	71,098.41	14,737.03	-	-	85,835.44	47,209.49		133,044.93	VMASC
200270-010	VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	EZELL, B.	10,142.23	-	-	-	10,142.23	-		10,142.23	VMASC
200252-010	* VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	EZELL, B.	22,321.76	-	-	-	22,321.76	2,678.61		25,000.37	VMASC
200258-010	* VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	EZELL, B.	7,727.92	33.80	-	-	7,761.72	4,268.95		12,030.67	VMASC
200259-010	* VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	EZELL, B.	2,550.63	354.16	-	-	2,904.79	1,597.63		4,502.42	VMASC
400328-010	* BATTELLE CORPORATION	EZELL, B.	33,275.75	1,693.52	-	-	34,969.28	19,233.11		54,202.39	VMASC
500338-010	* G2 OPS, INC.	EZELL, B.	7,301.51	-	-	-	7,301.51	4,015.83		11,317.34	VMASC
500341-001	* APPLIED RESEARCH ASSOCIATES, INC.	EZELL, B.	33,582.55	-	-	-	33,582.55	18,470.41		52,052.96	VMASC
500341-002	APPLIED RESEARCH ASSOCIATES, INC.	EZELL, B.	3,680.89	-	-	-	3,680.89	2,024.49		5,705.38	VMASC
500362-010	* G2 OPS, INC.	EZELL, B.	1,935.66	-	-	-	1,935.66	1,064.61		3,000.27	VMASC
500362-010	* G2 OPS, INC.	FLANAGAN, D.	1,935.66	-	-	-	1,935.66	1,064.61		3,000.27	VMASC
200244-011	* VA PORT AUTHORITY	FOYTICK, P.	4,738.10	-	-	-	4,738.10	2,605.96		7,344.06	VMASC
200258-010	* VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	FRYDENLUND, E.	6,623.93	28.97	-	-	6,652.90	3,659.10		10,312.00	VMASC
300445-010	* OLD DOMINION UNIVERSITY	FRYDENLUND, E.	24,671.22	6,392.68	-	-	31,063.89	-		31,063.89	VMASC
100710-010	* NAVAL SPEC WARFARE DEVELOPMENT GROUP	GARCIA, H.	7,392.58	850.03	-	-	8,242.62	5,357.70		13,600.32	VMASC
200252-010	* VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	GORE, R.	22,321.76	-	-	-	22,321.76	2,678.61		25,000.37	VMASC
300446-010	* OLD DOMINION UNIVERSITY	GORE, R.	17,952.24	-	-	-	17,952.24	-		17,952.24	VMASC
400284-010	* THE GENEVA FOUNDATION	GORE, R.	14,641.49	(32.75)	-	-	14,608.74	8,034.81		22,643.55	VMASC
400328-010	* BATTELLE CORPORATION	GORE, R.	22,183.84	1,129.02	-	-	23,312.85	12,822.07		36,134.92	VMASC
500338-010	* G2 OPS, INC.	GORE, R.	7,522.77	-	-	-	7,522.77	4,137.52		11,660.29	VMASC
500362-010	* G2 OPS, INC.	GORE, R.	1,935.66	-	-	-	1,935.66	1,064.61		3,000.27	VMASC
600201-010	* UNIVERSITY OF AGDER	GORE, R.	21,728.04	-	-	-	21,728.04	11,950.43		33,678.47	VMASC
400351-010	* CENTER FOR MIND AND CULTURE	LYNCH, C.	65,767.88	2,003.67	-	-	67,771.55	10,165.74		77,937.29	VMASC

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
300328-010	NORFOLK STATE UNIVERSITY	PADILLA, J.	120,868.99	2,145.54	-	21,499.99	144,514.52	65,197.71		209,712.23	VMASC
300445-010	* OLD DOMINION UNIVERSITY	PADILLA, J.	24,671.22	6,392.68	-	-	31,063.89	-		31,063.89	VMASC
100521-010	* AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	PAPELIS, Y.	15,664.09	4,862.86	921.00	1,671.60	23,119.55	35,267.38		58,386.92	VMASC
100601-010	* U.S. DEPARTMENT OF EDUCATION	PAPELIS, Y.	63,674.56	4,921.15	-	2,238.00	70,833.71	17,834.89		88,668.59	VMASC
500350-010	SIMIS, INC.	PAPELIS, Y.	-	15,049.86	451.30	-	15,501.16	-		15,501.16	VMASC
500342-001	* WR SYSTEMS, LTD.	PAPELIS, Y.	41,601.73	1,800.00	-	-	43,401.73	28,211.13		71,612.86	VMASC
300446-010	* OLD DOMINION UNIVERSITY	PARODI, A.	26,928.37	-	-	-	26,928.37	-		26,928.37	VMASC
400284-010	* THE GENEVA FOUNDATION	PARODI, A.	43,924.46	(98.24)	-	-	43,826.21	24,104.42		67,930.64	VMASC
100710-010	* NAVAL SPEC WARFARE DEVELOPMENT GROUP	RECHOWICZ, K.	6,957.72	800.03	-	-	7,757.76	5,042.54		12,800.30	VMASC
100531-001	* NAVAL SEA SYSTEMS COMMAND	ROBINSON, R.	14,759.61	-	-	-	14,759.61	9,593.75		24,353.35	VMASC
200244-011	* VA PORT AUTHORITY	ROBINSON, R.	5,527.78	-	-	-	5,527.78	3,040.29		8,568.07	VMASC
200258-010	* VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	ROBINSON, R.	7,727.92	33.80	-	-	7,761.72	4,268.95		12,030.67	VMASC
200259-010	* VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	ROBINSON, R.	2,550.63	354.16	-	-	2,904.79	1,597.63		4,502.42	VMASC
300258-010	* UNIVERSITY OF MARYLAND	ROBINSON, R.	4,444.63	762.89	-	-	5,207.52	2,759.98		7,967.50	VMASC
300462-010	OLD DOMINION UNIVERSITY	ROBINSON, R.	57,132.61	4,825.00	-	9,775.07	71,732.68	-		71,732.68	VMASC
100590-010	NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	-	-	-	783.22	783.22	281.96		1,065.18	VMASC
100622-010	NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	2,729.69	-	-	10,631.24	13,360.93	4,808.86		18,169.79	VMASC
100624-010	NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	718.84	-	-	27,047.93	27,766.77	276.39		28,043.16	VMASC
100629-010	NORFOLK NAVAL SHIPYARD	WEISEL, E.	-	12,244.75	-	-	12,244.75	3,918.32		16,163.07	VMASC
100634-010	NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	3,909.07	-	-	434,058.71	437,967.78	1,407.25		439,375.03	VMASC
100642-010	NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	1,482.60	-	-	48,831.00	50,313.60	533.73		50,847.33	VMASC
100643-010	NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	36,521.81	4,109.48	-	-	40,631.29	14,627.27		55,258.56	VMASC
100647-010	NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	4,515.71	67,048.85	-	-	71,564.56	25,763.24		97,327.80	VMASC
400193-000	NONE	WEISEL, E.	5,977.87	33,815.14	-	-	39,793.01	-		39,793.01	VMASC
500339-010	OCEAN BAY, LLC	WEISEL, E.	51,224.35	-	-	-	51,224.35	28,173.41		79,397.76	VMASC
			1,228,506.37	209,447.33	1,372.30	557,051.39	1,996,377.38	578,573.48	-	2,574,950.86	28.98%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
The Graduate School											
200236-010	* VA DEPARTMENT OF MOTOR VEHICLES	PORTER, B.	7,181.54	2,317.71	-	-	9,499.24	2,469.81	-	11,969.05	TRAD
200237-010	* VA DEPARTMENT OF MOTOR VEHICLES	PORTER, B.	2,126.81	-	-	-	2,126.81	1,169.75	-	3,296.56	TRAD
200242-010	* VA DEPARTMENT OF MOTOR VEHICLES	PORTER, B.	12,337.09	16,816.95	-	17,046.81	46,200.86	7,580.05	-	53,780.90	TRAD
200256-010	* VA DEPARTMENT OF MOTOR VEHICLES	PORTER, B.	14,900.76	8,455.13	-	-	23,355.89	6,072.53	-	29,428.41	TRAD
200257-010	* VA DEPARTMENT OF MOTOR VEHICLES	PORTER, B.	18,675.03	23,251.51	-	18,049.80	59,976.34	10,900.91	-	70,877.24	TRAD
			55,221.23	50,841.29	-	35,096.61	141,159.13	28,193.03	-	169,352.15	19.97%
Center for Enterprise Innovation											
200265-010	VA PORT AUTHORITY	BRINKER, J.	10,597.15	2,894.85	-	-	13,492.00	3,508.00	-	17,000.00	TRAD
200271-010	VA PORT AUTHORITY	BRINKER, J.	2,313.03	750.00	-	-	3,063.03	796.39	-	3,859.42	TRAD
400319-010	NEW MEXICO MEP (MANUFACTURING EXTENSION PARTNER)	BRINKER, J.	-	(2,441.72)	-	2,441.72	-	-	-	-	TRAD
500264-020	GENEDGE ALLIANCE - (FORMERLY PHILPOTT MANUFACTURE)	BRINKER, J.	881.18	135.36	-	-	1,016.54	-	-	1,016.54	TRAD
500264-030	GENEDGE ALLIANCE - (FORMERLY PHILPOTT MANUFACTURE)	BRINKER, J.	146,049.04	1,520.37	-	-	147,569.41	-	-	147,569.41	TRAD
500280-010	SEACOAST ELECTRIC COMPANY, INC.	BRINKER, J.	-	-	-	384.00	384.00	100.00	-	484.00	TRAD
500308-010	LIFENET	BRINKER, J.	-	-	-	35.40	35.40	9.50	-	44.90	TRAD
500313-010	GENEDGE ALLIANCE - (FORMERLY PHILPOTT MANUFACTURE)	BRINKER, J.	4,408.59	26,264.92	-	-	30,673.51	-	-	30,673.51	TRAD
500315-010	TABET MANUFACTURING CO.	BRINKER, J.	-	1,600.00	-	-	1,600.00	416.42	-	2,016.42	TRAD
500316-010	LPR, INC.	BRINKER, J.	1,909.87	9,803.78	-	-	11,713.65	3,045.40	-	14,759.05	TRAD
500317-010	PLASSER AMERICAN CORPORATION	BRINKER, J.	-	-	-	65.45	65.45	169.63	-	235.08	TRAD
500320-010	SEACOAST ELECTRIC COMPANY, INC.	BRINKER, J.	-	-	-	158.12	158.12	40.81	-	198.93	TRAD
500325-010	PLASSER AMERICAN CORPORATION	BRINKER, J.	20,039.90	2,942.33	-	-	22,982.23	5,975.20	-	28,957.43	TRAD
500325-020	PLASSER AMERICAN CORPORATION	BRINKER, J.	21,489.63	1,309.81	-	-	22,799.44	5,927.85	-	28,727.29	TRAD
500332-010	DAVIS INTERIORS LTD.	BRINKER, J.	2,429.26	53.37	-	-	2,482.63	645.48	-	3,128.11	TRAD
500335-010	WHITE & SIMPSON, INC.	BRINKER, J.	167.75	300.00	-	127.25	595.00	155.00	-	750.00	TRAD
500337-010	BAUER COMPRESSORS, INC.	BRINKER, J.	-	450.00	-	-	450.00	117.00	-	567.00	TRAD
500340-010	OMNII, LLC	BRINKER, J.	1,101.69	865.53	-	16.78	1,984.00	516.00	-	2,500.00	TRAD
500346-010	PLASSER AMERICAN CORPORATION	BRINKER, J.	386.35	1,052.54	-	2,132.11	3,571.00	929.00	-	4,500.00	TRAD
500349-010	PLASSER AMERICAN CORPORATION	BRINKER, J.	7,056.19	880.81	-	-	7,937.00	2,063.00	-	10,000.00	TRAD
500351-010	TAMESHIA JEFFERS	BRINKER, J.	-	560.21	-	-	560.21	145.66	-	705.87	TRAD
500355-010	LPR, INC.	BRINKER, J.	1,156.56	316.70	-	-	1,473.26	383.05	-	1,856.31	TRAD
500356-010	ARDX	BRINKER, J.	2,269.26	-	-	-	2,269.26	590.00	-	2,859.26	TRAD
500357-010	UROLOGY OF VIRGINIA	BRINKER, J.	2,709.55	988.30	-	270.15	3,968.00	1,032.00	-	5,000.00	TRAD
500358-010	PLASSER AMERICAN CORPORATION	BRINKER, J.	9,756.98	14.18	-	-	9,771.16	2,540.51	-	12,311.67	TRAD
500360-010	SEACOAST ELECTRIC COMPANY, INC.	BRINKER, J.	2,192.45	1,775.06	-	-	3,967.51	1,031.55	-	4,999.06	TRAD
500363-010	LPR, INC.	BRINKER, J.	976.36	394.11	-	-	1,370.47	356.32	-	1,726.79	TRAD
500364-010	PLASSER AMERICAN CORPORATION	BRINKER, J.	1,969.00	-	-	-	1,969.00	511.94	-	2,480.94	TRAD
500365-010	TABET MANUFACTURING CO.	BRINKER, J.	1,180.39	-	-	-	1,180.39	306.90	-	1,487.29	TRAD
500367-010	LPR, INC.	BRINKER, J.	2,419.00	69.95	-	-	2,488.95	647.13	-	3,136.08	TRAD
600216-010	NITTO, INC.	BRINKER, J.	5,439.72	1,100.28	-	-	6,540.00	1,700.41	-	8,240.41	TRAD
100713-010	* SMALL BUSINESS ADMINISTRATION	FILER, L.	19,197.09	1,254.11	-	-	20,451.19	5,317.31	-	25,768.50	TRAD
100415-050	SMALL BUSINESS ADMINISTRATION	KASZUBOWSKI, M.	26,449.59	16,442.98	-	-	42,892.57	8,578.52	-	51,471.09	TRAD
100658-010	SMALL BUSINESS ADMINISTRATION	KASZUBOWSKI, M.	208,649.66	28,335.38	-	-	236,985.04	64,323.64	-	301,308.68	TRAD
100694-010	SMALL BUSINESS ADMINISTRATION	KASZUBOWSKI, M.	57,909.86	6,787.41	-	-	64,697.27	16,821.29	-	81,518.56	TRAD
200204-010	GOVERNOR'S OFFICE	KASZUBOWSKI, M.	-	-	(0.47)	(0.47)	-	-	(0.47)	-	TRAD
200204-020	GOVERNOR'S OFFICE	KASZUBOWSKI, M.	231,923.25	115,060.00	-	265.91	347,249.16	-	-	347,249.16	TRAD
200230-010	CRATER PLANNING DISTRICT COMMISSION	KASZUBOWSKI, M.	989.54	1,284.97	-	-	2,274.51	591.66	-	2,866.17	TRAD
200230-011	CRATER PLANNING DISTRICT COMMISSION	KASZUBOWSKI, M.	6,431.96	4,694.44	-	0.40	11,126.80	2,893.03	-	14,019.83	TRAD
200251-010	CRATER PLANNING DISTRICT COMMISSION	KASZUBOWSKI, M.	8,184.32	3,121.74	-	-	11,306.06	2,939.58	-	14,245.64	TRAD
200251-011	CRATER PLANNING DISTRICT COMMISSION	KASZUBOWSKI, M.	58,941.91	15,550.01	-	-	74,491.92	19,367.89	-	93,859.81	TRAD
300420-010	VA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	KASZUBOWSKI, M.	-	10,542.67	-	-	10,542.67	2,635.67	-	13,178.34	TRAD
100713-010	* SMALL BUSINESS ADMINISTRATION	SAGESTER, C.	19,197.09	1,254.11	-	-	20,451.19	5,317.31	-	25,768.50	TRAD
			886,773.16	257,928.55	-	5,896.82	1,150,598.53	162,446.04	-	1,313,044.57	14.12%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
Other Miscellaneous Units											
300411-010	OLD DOMINION UNIVERSITY	DRAPER, D.	36,385.14	1,294.83	-	-	37,679.97	-		37,679.97	TRAD
100706-010	NATIONAL SECURITY AGENCY	DRAPER, D.	392.11	757.60	-	-	1,149.71	632.34		1,782.05	TRAD
300350-020	OLD DOMINION UNIVERSITY	HUCKLESS, M.	3,097.50	-	-	-	3,097.50	-		3,097.50	TRAD
300459-010	OLD DOMINION UNIVERSITY	HUCKLESS, M.	1,540.00	-	-	-	1,540.00	-		1,540.00	TRAD
100507-010	NATIONAL SCIENCE FOUNDATION	JONES, W.	324.26	-	-	-	324.26	171.86		496.11	TRAD
300054-010	OLD DOMINION UNIVERSITY	LOVE, L.	85,362.55	24,101.32	-	24,547.90	134,011.77	8,757.11		142,768.88	TRAD
300434-010	OLD DOMINION UNIVERSITY	LOVE, L.	174,807.58	11,685.03	-	14,430.59	200,923.20	14,919.40		215,842.60	TRAD
300411-010	OLD DOMINION UNIVERSITY	MAYES, N.	36,385.14	1,294.83	-	-	37,679.97	-		37,679.97	TRAD
100682-010	U.S. FISH AND WILDLIFE SERVICES	MCLEOD, G.	2,483.82	214.61	-	-	2,698.43	701.59		3,400.02	TRAD
200188-030	OLD DOMINION UNIVERSITY	MCLEOD, G.	702.08	4,218.07	-	4,686.62	9,606.77	393.61		10,000.38	TRAD
200244-010	VA PORT AUTHORITY	MCLEOD, G.	9,366.26	58.28	-	514.63	9,939.17	5,466.31		15,405.49	TRAD
500336-010	SCIENCE SYSTEMS & APPLICATIONS, INC.	MCLEOD, G.	7,741.86	-	-	-	7,741.86	4,258.02		11,999.88	TRAD
400276-010	BLUE MOON FUND	STEINHILBER, E.	-	908.94	-	-	908.94	136.34		1,045.28	TRAD
300051-060	OLD DOMINION UNIVERSITY	STUDIVANT, P.	56,887.68	2,831.11	-	-	59,718.79	4,777.51		64,496.30	TRAD
300051-070	OLD DOMINION UNIVERSITY	STUDIVANT, P.	208,570.03	10,438.50	-	28,243.35	247,251.88	17,520.68		264,772.56	TRAD
300051-050	OLD DOMINION UNIVERSITY	STUDIVANT, P.	2,037.92	938.97	-	-	2,976.89	238.15		3,215.04	TRAD
100538-010	OFFICE OF NAVAL RESEARCH	WATERS, S.	17,927.55	3,220.57	-	-	21,148.12	17,039.26		38,187.39	TRAD
100527-018	NASA GODDARD SPACEFLIGHT CENTER	YOUNG, J.	1,048.38	-	-	5,200.00	6,248.38	-		6,248.38	TRAD
100631-010	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY	PAYNE, B.	22,516.35	43,966.41	-	445.24	66,928.00	17,285.53		84,213.53	TRAD
100675-010	NATIONAL SCIENCE FOUNDATION	PAYNE, B.	17,741.90	9,341.64	-	17,554.73	44,638.27	14,895.96		59,534.23	TRAD
300411-010	OLD DOMINION UNIVERSITY	PAYNE, B.	37,487.72	1,334.07	-	-	38,821.79	-		38,821.79	TRAD
100709-010	NATIONAL SCIENCE FOUNDATION	PAYNE, B.	1,191.65	330.00	-	-	1,521.64	836.90		2,358.55	TRAD
			723,997.46	116,934.79	-	95,623.06	936,555.31	108,030.58	-	1,044,585.90	11.53%
TOTAL OFFICE OF RESEARCH AND OTHER ACTIVITY			\$ 3,649,234.81	\$ 887,628.88	\$ 42,122.30	\$ 699,973.96	\$ 5,278,959.95	\$ 1,351,065.55	\$ -	\$ 6,630,025.50	25.59%
TOTAL UNIVERSITY ACTIVITY			\$ 21,216,404.98	\$ 5,108,435.35	\$ 641,425.42	\$ 7,096,702.55	\$ 34,062,968.40	\$ 8,475,264.44	\$ -	\$ 42,538,232.84	24.88%

SCHEDULE 4
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE
AFFILIATED ACTIVITY											
Virginia Space Grant Consortium											
100239-010	NATIONAL SCIENCE FOUNDATION	CARTER, C.	-	2,859.99	-	3,279.00	6,138.99	743.59		6,882.58	VSGC
100607-010	NATIONAL SCIENCE FOUNDATION	CARTER, C.	37,168.08	71,469.40	-	123,430.56	232,068.04	28,245.74		260,313.78	VSGC
200268-010	GAR-FIELD HIGH SCHOOL	CARTER, C.	1,170.17	1,959.00	-	897.50	4,026.67	-		4,026.67	VSGC
400139-100	NEW HORIZONS REGIONAL EDUCATION CENTERS	CARTER, C.	-	321.39	-	-	321.39	83.58		404.97	VSGC
500323-010	MIDLAND GIS SOLUTIONS	CARTER, C.	6,703.19	-	-	58,550.00	65,253.19	1,742.84		66,996.03	VSGC
100502-010	NASA GODDARD SPACEFLIGHT CENTER	SANDY, M.	-	-	-	3,337.20	3,337.20	-		3,337.20	VSGC
100522-010	LANGLEY RESEARCH CENTER	SANDY, M.	13,132.88	61,104.69	-	-	74,237.57	19,301.77		93,539.34	VSGC
100527-010	NASA GODDARD SPACEFLIGHT CENTER	SANDY, M.	308,255.44	17,906.55	-	306,101.47	632,263.46	84,802.14		717,065.60	VSGC
100573-010	NASA/HEADQUARTERS	SANDY, M.	14,137.52	1,089.23	-	33,191.18	48,417.93	3,958.95		52,376.88	VSGC
100595-010	* NASA GODDARD SPACEFLIGHT CENTER	SANDY, M.	7,663.45	16,886.21	-	34,394.06	58,943.73	6,382.94		65,326.66	VSGC
100631-011	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY	SANDY, M.	12,807.02	1,837.47	-	228.21	14,872.70	3,807.55		18,680.25	VSGC
200005-010	STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	SANDY, M.	205,144.57	105,032.51	-	150,733.59	460,910.67	-		460,910.67	VSGC
200005-011	STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	SANDY, M.	-	1,073.44	-	46,946.03	48,019.47	-		48,019.47	VSGC
200009-010	STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	SANDY, M.	-	-	-	170,573.15	170,573.15	-		170,573.15	VSGC
200009-020	STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	SANDY, M.	23,293.90	29,596.06	-	81,737.33	134,627.29	-		134,627.29	VSGC
300030-010	UNIVERSITY OF VIRGINIA	SANDY, M.	58,493.45	52,264.86	-	96,682.20	207,440.51	-		207,440.51	VSGC
300040-010	VA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	SANDY, M.	228,520.05	27,595.54	-	5,749.07	261,864.66	-		261,864.66	VSGC
300125-010	OLD DOMINION UNIVERSITY	SANDY, M.	130,726.92	122,961.96	-	77,091.20	330,780.08	-		330,780.08	VSGC
300342-010	HAMPTON UNIVERSITY	SANDY, M.	28,285.69	22,412.60	-	-	50,698.29	13,181.56		63,879.85	VSGC
300419-010	VIRGINIA COMMUNITY COLLEGE SYSTEM	SANDY, M.	-	-	-	66,190.00	66,190.00	-		66,190.00	VSGC
300423-020	OLD DOMINION UNIVERSITY	SANDY, M.	16,056.47	16,334.51	-	38,964.55	71,355.53	-		71,355.53	VSGC
300462-011	OLD DOMINION UNIVERSITY	SANDY, M.	4,143.83	-	-	1,837.50	5,981.33	-		5,981.33	VSGC
400204-010	THE NATIONAL ACADEMIES	SANDY, M.	149,567.39	37,717.97	-	139,289.18	326,574.54	48,694.19		375,268.73	VSGC
			1,245,270.02	590,423.38	-	1,439,202.98	3,274,896.39	210,944.85	-	3,485,841.23	6.44%
Virginia Tidewater Consortium for Higher Education											
100618-010	U.S. DEPARTMENT OF EDUCATION	DOTOLO, L.	373,118.29	76,811.64	-	-	449,929.93	34,628.05		484,557.98	TRAD
400252-020	OPPORTUNITY, INC.	DOTOLO, L.	2,985.91	270.34	-	876.15	4,132.30	325.63		4,457.93	TRAD
400252-030	OPPORTUNITY, INC.	DOTOLO, L.	62,656.16	2,343.02	-	15,626.05	80,625.23	6,499.94		87,125.17	TRAD
			438,760.36	79,425.00	-	16,502.20	534,687.46	41,453.62	-	576,141.08	7.75%
TOTAL AFFILIATED ACTIVITY			\$ 1,684,030.38	\$ 669,848.38	\$ -	\$ 1,455,705.18	\$ 3,809,583.85	\$ 252,398.47	\$ -	\$ 4,061,982.31	6.63%
GRAND TOTAL			\$ 22,900,435.36	\$ 5,778,283.73	\$ 641,425.42	\$ 8,552,407.73	\$ 37,872,552.24	\$ 8,727,662.91	\$ -	\$ 46,600,215.15	23.04%

SCHEDULE 5

**Enterprise Centers Including Projects Reported as
Activity of an Academic Department
Fiscal Year 2018**

SCHEDULE 5
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
ENTERPRISE CENTERS INCLUDING PROJECTS REPORTED AS ACTIVITY
OF AN ACADEMIC DEPARTMENT
(b) (4) (MEASURED BY EXPENDITURES INCURRED)
FOR FISCAL YEAR 2018

PROJECT NUMBER			PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		EFFECTIVE INDIRECT RATE	CENTER
				PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS		
APPLIED RESEARCH CENTER													
300311-010	ROCHESTER INSTITUTE OF TECHNOLOGY		BAILEY, C.	15,989	922	-	-	16,912	8,963	-	25,875		ARC
100221-010	* NATIONAL SCIENCE FOUNDATION		BAUMGART, H.	1,234	(30)	-	-	1,204	638	-	1,843		ARC
100473-010	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY		BAUMGART, H.	3,576	-	-	-	3,576	930	-	4,506		ARC
300409-010	* UNIVERSITY OF VIRGINIA		BAUMGART, H.	-	1,517	-	-	1,517	-	-	1,517		ARC
400110-023	JEFFERSON SCIENCE ASSOCIATES, LLC (J-LAB)		BAUMGART, H.	5,781	-	-	969	6,750	-	-	6,750		ARC
500284-010	SUMMIT INFORMATION SOLUTIONS, INC		BAUMGART, H.	14,598	25	-	-	14,622	3,802	-	18,424		ARC
500295-010	MICROXACT, INC.		BAUMGART, H.	-	-	-	177	177	46	-	223		ARC
100221-010	* NATIONAL SCIENCE FOUNDATION		ELSAYED-ALI, H.	9,874	(239)	-	-	9,634	5,106	-	14,741		ARC
100567-020	LANGLEY RESEARCH CENTER		ELSAYED-ALI, H.	17,412	3,102	-	-	20,515	5,334	-	25,848		ARC
100674-010	NATIONAL SCIENCE FOUNDATION		ELSAYED-ALI, H.	44,066	8,365	2,522	-	54,952	28,837	-	83,789		ARC
300389-010	NORFOLK STATE UNIVERSITY		ELSAYED-ALI, H.	-	1,105	-	-	1,105	608	-	1,713		ARC
300430-010	UNIVERSITY OF VIRGINIA		ELSAYED-ALI, H.	5,939	2,214	-	-	8,153	-	-	8,153		ARC
400110-022	JEFFERSON SCIENCE ASSOCIATES, LLC (J-LAB)		ELSAYED-ALI, H.	6,527	-	-	2,184	8,711	-	-	8,711		ARC
400125-010	EMBODY		ELSAYED-ALI, H.	481	3,100	-	0	3,581	1,970	-	5,551		ARC
400125-020	EMBODY		ELSAYED-ALI, H.	633	1,400	-	-	2,033	1,118	-	3,150		ARC
400288-010	EMBODY		ELSAYED-ALI, H.	-	(67)	-	-	(67)	(37)	-	(104)		ARC
400329-010	JEFFERSON SCIENCE ASSOCIATES, LLC (J-LAB)		ELSAYED-ALI, H.	-	1,000	-	-	1,000	-	-	1,000		ARC
400342-010	COMMONWEALTH CENTER FOR ADVANCED MANUFACTURING		ELSAYED-ALI, H.	-	600	-	-	600	210	-	810		ARC
400346-011	JEFFERSON SCIENCE ASSOCIATES, LLC (J-LAB)		ELSAYED-ALI, H.	18,812	4,253	-	-	23,065	-	-	23,065		ARC
400352-010	EMBODY		ELSAYED-ALI, H.	-	480	-	-	480	264	-	744		ARC
500254-010	VERTICAL CARBON TECHNOLOGIES, INC.		ELSAYED-ALI, H.	-	-	-	44	44	24	-	69		ARC
500258-010	NON-DISCLOSED SPONSORS		ELSAYED-ALI, H.	-	910	-	9	919	505	-	1,424		ARC
500285-010	BNNT, LLC		ELSAYED-ALI, H.	633	3,850	-	-	4,483	2,465	-	6,948		ARC
500288-010	FACE CONSTRUCTION TECHNOLOGIES		ELSAYED-ALI, H.	495	1,395	-	-	1,890	1,039	-	2,929		ARC
500345-010	MTEQ MANUFACTURING SERVICES		ELSAYED-ALI, H.	-	17,579	-	-	17,579	-	-	17,579		ARC
500361-010	BLACK LABORATORIES, LLC		ELSAYED-ALI, H.	-	470	-	-	470	259	-	729		ARC
100495-010	* NATIONAL SCIENCE FOUNDATION		ELSAYED-ALI, H.	-	66	-	-	66	35	-	102		ARC
200272-010	* CENTER FOR INNOVATIVE TECHNOLOGY		ELSAYED-ALI, H.	-	1,769	-	-	1,769	531	-	2,299		ARC
300409-010	* UNIVERSITY OF VIRGINIA		ELSAYED-ALI, H.	-	3,540	-	-	3,540	-	-	3,540		ARC
100256-010	* NATIONAL SCIENCE FOUNDATION		MARSILLAC, S.	569	412	-	11,625	12,606	520	-	13,126		ARC
100495-010	* NATIONAL SCIENCE FOUNDATION		MARSILLAC, S.	-	33	-	-	33	18	-	51		ARC
300344-010	UNIVERSITY OF TOLEDO		MARSILLAC, S.	(4,025)	(1,301)	-	-	(5,327)	(2,823)	-	(8,150)		ARC
300428-010	COLORADO SCHOOL OF MINES		MARSILLAC, S.	43,924	10,202	-	-	54,126	40,140	-	94,267		ARC
300436-010	COLORADO SCHOOL OF MINES		MARSILLAC, S.	12,136	2,966	-	-	15,102	8,306	-	23,408		ARC
500238-030	* NON-DISCLOSED SPONSORS		MARSILLAC, S.	8,080	310	-	-	8,390	4,283	-	12,673		ARC
300392-010	NORFOLK STATE UNIVERSITY		NAMKOONG, G.	7,293	-	-	-	7,293	4,011	-	11,305		ARC
300465-010	UNIVERSITY OF VIRGINIA		NAMKOONG, G.	3,226	145	-	-	3,371	-	-	3,371		ARC
600211-010	SAMIL TECH COMPANY, LTD		NAMKOONG, G.	9,527	36	-	-	9,563	-	-	9,563		ARC
100221-010	* NATIONAL SCIENCE FOUNDATION		NAMKOONG, G.	1,234	(30)	-	-	1,204	638	-	1,843		ARC
100256-010	* NATIONAL SCIENCE FOUNDATION		NAMKOONG, G.	1,821	1,317	-	37,200	40,338	1,663	-	42,002		ARC
100495-010	* NATIONAL SCIENCE FOUNDATION		NAMKOONG, G.	-	244	-	-	244	129	-	373		ARC
200272-010	* CENTER FOR INNOVATIVE TECHNOLOGY		RAMJEE, B.	-	197	-	-	197	59	-	255		ARC
100495-010	* NATIONAL SCIENCE FOUNDATION		RAMJEE, B.	-	66	-	-	66	35	-	102		ARC
				229,836	71,923	2,522	52,208	356,488	119,626	-	476,114	33.56%	

SCHEDULE 5
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
ENTERPRISE CENTERS INCLUDING PROJECTS REPORTED AS ACTIVITY
OF AN ACADEMIC DEPARTMENT
(MEASURED BY EXPENDITURES INCURRED)
FOR FISCAL YEAR 2018

PROJECT NUMBER			PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	PROJECT DIRECT COST			PROJECT IDC AND FEES		TOTAL COSTS		EFFECTIVE INDIRECT RATE	CENTER
					SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS		
FRANK REIDY RESEARCH CENTER FOR BIOELECTRICS													
300427-910	1	PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	82,151	37,931	-	-	120,083	46,642		166,724		CBE
500314-010		PULSE CENTERS	BEEBE, S.	11,026	23,543	-	-	34,569	19,013		53,582		CBE
300427-010	*	OLD DOMINION UNIVERSITY	BEEBE, S.	42,994	20,640	-	-	63,634	19,090		82,724		CBE
300455-010	*	UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER	BEEBE, S.	-	4,354	-	-	4,354	-		4,354		CBE
300455-020	*	UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER	BEEBE, S.	403	7,347	-	-	7,750	-		7,750		CBE
500226-005	*	PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	-	148	-	326	474	261		735		CBE
500226-006	*	PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	(460)	-	-	-	(460)	(253)		(714)		CBE
500226-006	*	PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	-	557	-	489	1,045	575		1,621		CBE
500226-008	*	PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	-	-	-	2,569	2,569	1,412		3,982		CBE
100692-010		U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	CATRAVAS, J.	94,933	26,020	-	-	120,953	66,524		187,478		CBE
600210-010		FERRING PHARMACEUTICALS INC.	CATRAVAS, J.	77,708	9,435	-	-	87,144	47,929		135,072		CBE
500226-008	*	PULSE BIOSCIENCES (ELECTROBLATE)	CATRAVAS, J.	-	-	-	2,569	2,569	1,412		3,982		CBE
500366-010	*	OLYMPUS CORPORATION OF THE AMERICAS	CATRAVAS, J.	-	147	-	-	147	81		228		CBE
600186-010	*	UNIVERSITY OF SOUTHAMPTON	CHEN, H.	85,008	5,789	-	-	90,797	48,123		138,920		CBE
100517-010	*	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	GUO, S.	22,734	10,753	-	-	33,487	17,748		51,235		CBE
300427-010	*	OLD DOMINION UNIVERSITY	GUO, S.	42,994	20,640	-	-	63,634	19,090		82,724		CBE
300427-910	*	PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	17,228	17,920	-	-	35,148	(72)		35,076		CBE
500226-005	*	PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	-	295	-	653	948	522		1,470		CBE
500226-006	*	PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	(197)	239	-	209	251	138		389		CBE
500226-009	*	PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	57,822	9,958	-	-	67,780	37,279		105,059		CBE
500226-011	*	PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	15,065	3,081	-	635	18,781	9,981		28,762		CBE
100579-010		U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HELLER, L.	79,414	27,233	-	101,201	207,849	58,656		266,505		CBE
100516-010		U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HELLER, R.	148,617	40,888	-	36,728	226,233	100,438		326,670		CBE
500226-000		PULSE BIOSCIENCES (ELECTROBLATE)	HELLER, R.	-	34	-	-	34	-		34		CBE
100517-010	*	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HELLER, R.	106,090	50,181	-	-	156,271	82,824		239,095		CBE
500226-005	*	PULSE BIOSCIENCES (ELECTROBLATE)	HELLER, R.	-	148	-	326	474	261		735		CBE
100661-010		AIR FORCE RESEARCH LABORATORY	JIANG, C.	48,526	24,260	-	-	72,785	40,032		112,817		CBE
500328-010		TRANSIENT PLASMA SYSTEMS, INC.	JIANG, C.	32,641	5,137	-	-	37,779	20,778		58,557		CBE
600186-010	*	UNIVERSITY OF SOUTHAMPTON	KONG, M.	198,353	13,508	-	-	211,861	112,286		324,147		CBE
500226-010	*	PULSE BIOSCIENCES (ELECTROBLATE)	MURATORI, C.	64,104	15,760	-	-	79,864	43,925		123,789		CBE
100548-010	*	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	PAKHOMOV, A.	69,221	7,949	-	-	77,170	42,443		119,613		CBE
300345-010		OLD DOMINION UNIVERSITY	PAKHOMOV, A.	211,672	55,964	-	728,335	995,970	147,199		1,143,170		CBE

SCHEDULE 5
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
ENTERPRISE CENTERS INCLUDING PROJECTS REPORTED AS ACTIVITY
OF AN ACADEMIC DEPARTMENT
(b) (4) (MEASURED BY EXPENDITURES INCURRED)
FOR FISCAL YEAR 2018

PROJECT NUMBER			PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		EFFECTIVE INDIRECT COST RATE	CENTER
				PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS		
100548-010	*	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	PAKHOMOVA, O.	8,653	994	-	-	9,646	5,305		14,952		CBE
300345-012		OLD DOMINION UNIVERSITY	PAKHOMOVA, O.	82,962	22,505	-	-	105,467	58,007		163,474		CBE
500226-010	*	PULSE BIOSCIENCES (ELECTROBLATE)	PAKHOMOVA, O.	27,473	6,754	-	-	34,227	18,825		53,052		CBE
500366-010	*	OLYMPUS CORPORATION OF THE AMERICAS	PAKHOMOVA, O.	-	147	-	-	147	81		228		CBE
100458-010	*	NATIONAL SCIENCE FOUNDATION	QIAN, S.	121	(68)	-	-	52	28		80		CBE
100517-010	*	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	SCHOENBACH, K.	22,734	10,753	-	-	33,487	17,748		51,235		CBE
100548-010	*	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	SEMENOV, I.	17,305	1,987	-	-	19,292	10,611		29,903		CBE
400324-010		BREEDEN-ADAMS FOUNDATION	STACEY, M.	(85)	3,618	-	1,424	4,957	-		4,957		CBE
100341-010	*	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	STACEY, M.	-	1	-	-	1	-		1		CBE
500226-009	*	PULSE BIOSCIENCES (ELECTROBLATE)	VERNIER, P.	57,822	9,958	-	-	67,780	37,279		105,059		CBE
100474-010		AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	VERNIER, T.	2,038	2,963	-	-	5,001	2,650		7,651		CBE
300345-013		OLD DOMINION UNIVERSITY	VERNIER, T.	94,842	13,913	40,750	-	149,505	59,815		209,320		CBE
300345-011		OLD DOMINION UNIVERSITY	XIAO, S.	92,099	13,646	-	4,263	110,009	58,160		168,169		CBE
300369-010		UNIVERSITY OF TEXAS AT ARLINGTON	XIAO, S.	5,489	623	-	-	6,112	3,362		9,473		CBE
100548-010	*	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	XIAO, S.	8,653	994	-	-	9,646	5,305		14,952		CBE
500226-011	*	PULSE BIOSCIENCES (ELECTROBLATE)	XIAO, S.	85,369	17,460	-	3,599	106,428	56,556		162,985		CBE
100548-010	*	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	ZEMLIN, C.	69,221	7,949	-	-	77,170	42,443		119,613		CBE
400333-010		AMERICAN HEART ASSOCIATION	ZEMLIN, C.	14,130	395	-	-	14,525	-		14,525		CBE
500226-007		PULSE BIOSCIENCES (ELECTROBLATE)	ZEMLIN, C.	9,944	28,925	-	-	38,869	21,378		60,247		CBE
				2,106,816	583,373	40,750	883,327	3,614,267	1,381,891	-	4,996,158		38.23%

SCHEDULE 5
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
ENTERPRISE CENTERS INCLUDING PROJECTS REPORTED AS ACTIVITY
OF AN ACADEMIC DEPARTMENT
(b) (4) (MEASURED BY EXPENDITURES INCURRED)
FOR FISCAL YEAR 2018

PROJECT NUMBER			PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		EFFECTIVE INDIRECT RATE	CENTER
				PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS		
SOCIAL SCIENCE RESEARCH CENTER													
200233-010	CITY OF PORTSMOUTH		VANDECAR-BURDIN, T.	18,922	295	-	-	19,218	4,997		24,214		SSRC
200254-010	CITY OF VIRGINIA BEACH		VANDECAR-BURDIN, T.	1,013	-	-	-	1,013	159		1,172		SSRC
200269-010	VIRGINIA BEACH DEPARTMENT OF PUBLIC HEALTH		VANDECAR-BURDIN, T.	249	-	-	-	249	137		386		SSRC
300292-010	OLD DOMINION UNIVERSITY		VANDECAR-BURDIN, T.	-	-	-	6,828	6,828	342		7,170		SSRC
300312-010	OLD DOMINION UNIVERSITY		VANDECAR-BURDIN, T.	29,166	20,484	-	-	49,650	2,482		52,132		SSRC
300433-010	OLD DOMINION UNIVERSITY		VANDECAR-BURDIN, T.	7,455	-	-	-	7,455	-		7,455		SSRC
300450-010	OLD DOMINION UNIVERSITY		VANDECAR-BURDIN, T.	37,513	3,014	-	-	40,527	4,053		44,580		SSRC
400371-010	AMERICAN SOCIETY OF BIOMECHANICS		VANDECAR-BURDIN, T.	272	-	-	-	272	150		421		SSRC
500327-010	CLARK NEXSEN		VANDECAR-BURDIN, T.	846	395	-	150	1,391	765		2,156		SSRC
200221-020	* CITY OF SUFFOLK		VANDECAR-BURDIN, T.	7,564	204	-	-	7,769	2,020		9,789		SSRC
200248-010	* VIRGINIA OFFICE OF THE ATTORNEY GENERAL		VANDECAR-BURDIN, T.	10,440	376	-	-	10,816	2,812		13,628		SSRC
300346-010	* OLD DOMINION UNIVERSITY		VANDECAR-BURDIN, T.	-	1	-	-	1	-		1		SSRC
300356-020	* OLD DOMINION UNIVERSITY		VANDECAR-BURDIN, T.	3,885	2,661	-	-	6,546	524		7,070		SSRC
300432-010	OLD DOMINION UNIVERSITY		VANDECAR-BURDIN, T.	18,301	3,250	-	-	21,551	1,078		22,628		SSRC
300439-010	UNIVERSITY OF RICHMOND		VANDECAR-BURDIN, T.	13,759	2,200	-	-	15,959	-		15,959		SSRC
				149,387	32,880	-	6,978	189,245	19,517	-	208,762		10.31%
SELF SUPPORTING RESEARCH PROFESSIONALS													
100656-010	* NASA GODDARD SPACEFLIGHT CENTER		HILL, V.	28,035	2,746	-	-	30,781	16,929		47,710		SSRP
100604-010	NATIONAL SCIENCE FOUNDATION		HILL, V.	82,505	27,525	196,229	-	306,259	60,516		366,775		SSRP
400357-010	CONSORTIUM FOR OCEAN LEADERSHIP, INC.		HILL, V.	-	3,296	-	5,704	9,000	-		9,000		SSRP
100655-010	* NATIONAL SCIENCE FOUNDATION		FILIPPINO, K.	8,630	-	-	40,059	48,689	4,747		53,436		SSRP
				119,170	33,566	196,229	45,763	394,728	82,193	-	476,921		20.82%
CENTER FOR CYBERSECURITY													
100527-016	* NASA GODDARD SPACEFLIGHT CENTER		HE, W.	3,602	-	-	1,514	5,117	-		5,117		CYBER
100621-010	* NATIONAL SCIENCE FOUNDATION		HE, W.	2,575	844	-	-	3,420	1,881		5,301		CYBER
100648-010	* NATIONAL SCIENCE FOUNDATION		HE, W.	1,501	1,996	-	20,190	23,687	1,923		25,610		CYBER
100706-010	* NATIONAL SECURITY AGENCY		HE, W.	588	1,136	-	-	1,725	949		2,673		CYBER
100709-010	* NATIONAL SCIENCE FOUNDATION		HE, W.	1,192	330	-	-	1,522	837		2,359		CYBER
100648-010	* NATIONAL SCIENCE FOUNDATION		IFTEKHARUDDIN, K.	1,501	1,996	-	20,190	23,687	1,923		25,610		CYBER
100631-010	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY		PAYNE, B.	22,516	43,966	-	445	66,928	17,286		84,214		CYBER
100675-010	NATIONAL SCIENCE FOUNDATION		PAYNE, B.	17,742	9,342	-	17,555	44,638	14,896		59,534		CYBER
300411-010	OLD DOMINION UNIVERSITY		PAYNE, B.	37,488	1,334	-	-	38,822	-		38,822		CYBER
100709-010	NATIONAL SCIENCE FOUNDATION		PAYNE, B.	1,192	330	-	-	1,522	837		2,359		CYBER
100612-010	NATIONAL SCIENCE FOUNDATION		WU, H.	83,438	12,810	-	11,310	107,558	52,936		160,494		CYBER
500311-010	WISE CASE TECHNOLOGIES, LLC		WU, H.	12,973	3,274	-	-	16,247	8,936		25,182		CYBER
100706-010	* NATIONAL SECURITY AGENCY		WU, H.	392	758	-	-	1,150	632		1,782		CYBER
100709-010	* NATIONAL SCIENCE FOUNDATION		WU, H.	1,192	330	-	-	1,522	837		2,359		CYBER
100527-016	* NASA GODDARD SPACEFLIGHT CENTER		XIN, C.	3,602	-	-	1,514	5,117	-		5,117		CYBER
100648-010	* NATIONAL SCIENCE FOUNDATION		XIN, C.	1,501	1,996	-	20,190	23,687	1,923		25,610		CYBER
100680-010	NATIONAL SCIENCE FOUNDATION		XIN, C.	-	2,255	-	-	2,255	1,240		3,495		CYBER
100706-010	* NATIONAL SECURITY AGENCY		XIN, C.	588	1,136	-	-	1,725	949		2,673		CYBER
100709-010	* NATIONAL SCIENCE FOUNDATION		XIN, C.	1,192	330	-	-	1,522	837		2,359		CYBER
				194,774	84,163	-	92,909	371,846	108,821	-	480,667		29.27%
MITIGATION & ADAPTION RESEARCH INSTITUTE													
100565-010	U.S. FISH AND WILDLIFE SERVICES		PLAG, H.	31,179	8,350	-	18,367	57,896	-		57,896		MARI
100678-010	NASA/HEADQUARTERS		PLAG, H.	12,501	972	-	32,634	46,107	3,503		49,609		MARI
				43,679	9,322	-	51,001	104,002	3,503	-	107,505		3.37%

SCHEDULE 5
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
ENTERPRISE CENTERS INCLUDING PROJECTS REPORTED AS ACTIVITY
OF AN ACADEMIC DEPARTMENT
(b) (4) (MEASURED BY EXPENDITURES INCURRED)
FOR FISCAL YEAR 2018

PROJECT NUMBER			PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		EFFECTIVE INDIRECT COST RATE	CENTER
				PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS		
VIRGINIA MODELING, ANALYSIS AND SIMULATION CENTER													
200266-010	VA DEPARTMENT OF CRIMINAL JUSTICE SERVICES		BARNES, J.	-	9,845	-	-	9,845	3,150		12,995		VMASC
100531-001	* NAVAL SEA SYSTEMS COMMAND		BARRACO, A.	14,760	-	-	-	14,760	9,594		24,353		VMASC
600201-010	* UNIVERSITY OF AGDER		BARRACO, A.	16,296	-	-	-	16,296	8,963		25,259		VMASC
200244-010	* VA PORT AUTHORITY		BEHR, J.	9,366	58	-	515	9,939	5,466		15,405		VMASC
300366-010	* UNIVERSITY OF NORTH CAROLINA		BEHR, J.	6,156	(58)	-	-	6,098	3,354		9,451		VMASC
100531-001	* NAVAL SEA SYSTEMS COMMAND		COLLINS, A.	15,207	-	-	-	15,207	9,884		25,091		VMASC
200244-011	* VA PORT AUTHORITY		COLLINS, A.	5,528	-	-	-	5,528	3,040		8,568		VMASC
300258-010	* UNIVERSITY OF MARYLAND		COLLINS, A.	1,111	191	-	-	1,302	690		1,992		VMASC
500338-010	* G2 OPS, INC.		CROLL, M.	7,302	-	-	-	7,302	4,016		11,317		VMASC
500342-001	* WR SYSTEMS, LTD.		CROLL, M.	6,934	300	-	-	7,234	4,702		11,935		VMASC
500362-010	* G2 OPS, INC.		CROLL, M.	1,936	-	-	-	1,936	1,065		3,000		VMASC
100710-010	* NAVAL SPEC WARFARE DEVELOPMENT GROUP		CVIJEVIC, B.	7,393	850	-	-	8,243	5,358		13,600		VMASC
400351-010	* CENTER FOR MIND AND CULTURE		DIALLO, S.	65,768	2,004	-	-	67,772	10,166		77,937		VMASC
500341-001	* APPLIED RESEARCH ASSOCIATES, INC.		DIALLO, S.	33,583	-	-	-	33,583	18,470		52,053		VMASC
500354-010	CAMBER CORPORATION		DIALLO, S.	64,327	10,000	-	-	74,327	40,880		115,206		VMASC
600201-010	* UNIVERSITY OF AGDER		DIALLO, S.	16,296	-	-	-	16,296	8,963		25,259		VMASC
200245-010	VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT		EZELL, B.	71,098	14,737	-	-	85,835	47,209		133,045		VMASC
200270-010	VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT		EZELL, B.	10,142	-	-	-	10,142	-		10,142		VMASC
200252-010	* VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT		EZELL, B.	22,322	-	-	-	22,322	2,679		25,000		VMASC
200258-010	* VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT		EZELL, B.	7,728	34	-	-	7,762	4,269		12,031		VMASC
200259-010	* VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT		EZELL, B.	2,551	354	-	-	2,905	1,598		4,502		VMASC
400328-010	* BATTELLE CORPORATION		EZELL, B.	33,276	1,694	-	-	34,969	19,233		54,202		VMASC
500338-010	* G2 OPS, INC.		EZELL, B.	7,302	-	-	-	7,302	4,016		11,317		VMASC
500341-001	* APPLIED RESEARCH ASSOCIATES, INC.		EZELL, B.	33,583	-	-	-	33,583	18,470		52,053		VMASC
500341-002	APPLIED RESEARCH ASSOCIATES, INC.		EZELL, B.	3,681	-	-	-	3,681	2,024		5,705		VMASC
500362-010	* G2 OPS, INC.		EZELL, B.	1,936	-	-	-	1,936	1,065		3,000		VMASC
500362-010	* G2 OPS, INC.		FLANAGAN, D.	1,936	-	-	-	1,936	1,065		3,000		VMASC
200244-011	* VA PORT AUTHORITY		FOYTIK, P.	4,738	-	-	-	4,738	2,606		7,344		VMASC
200258-010	* VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT		FRYDENLUND, E.	6,624	29	-	-	6,653	3,659		10,312		VMASC
300445-010	* OLD DOMINION UNIVERSITY		FRYDENLUND, E.	24,671	6,393	-	-	31,064	-		31,064		VMASC
100710-010	* NAVAL SPEC WARFARE DEVELOPMENT GROUP		GARCIA, H.	7,393	850	-	-	8,243	5,358		13,600		VMASC
200252-010	VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT		GORE, R.	22,322	-	-	-	22,322	2,679		25,000		VMASC
300446-010	* OLD DOMINION UNIVERSITY		GORE, R.	17,952	-	-	-	17,952	-		17,952		VMASC
400284-010	* THE GENEVA FOUNDATION		GORE, R.	14,641	(33)	-	-	14,609	8,035		22,644		VMASC
400328-010	* BATTELLE CORPORATION		GORE, R.	22,184	1,129	-	-	23,313	12,822		36,135		VMASC
500338-010	* G2 OPS, INC.		GORE, R.	7,523	-	-	-	7,523	4,138		11,660		VMASC
500362-010	* G2 OPS, INC.		GORE, R.	1,936	-	-	-	1,936	1,065		3,000		VMASC
600201-010	* UNIVERSITY OF AGDER		GORE, R.	21,728	-	-	-	21,728	11,950		33,678		VMASC
400351-010	* CENTER FOR MIND AND CULTURE		LYNCH, C.	65,768	2,004	-	-	67,772	10,166		77,937		VMASC
300328-010	NORFOLK STATE UNIVERSITY		PADILLA, J.	120,869	2,146	-	21,500	144,515	65,198		209,712		VMASC
300445-010	* OLD DOMINION UNIVERSITY		PADILLA, J.	24,671	6,393	-	-	31,064	-		31,064		VMASC
100521-010	* AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)		PAPELIS, Y.	15,664	4,863	921	1,672	23,120	35,267		58,387		VMASC
100601-010	* U.S. DEPARTMENT OF EDUCATION		PAPELIS, Y.	63,675	4,921	-	2,238	70,834	17,835		88,669		VMASC
500350-010	SIMIS, INC.		PAPELIS, Y.	-	15,050	451	-	15,501	-		15,501		VMASC
500342-001	* WR SYSTEMS, LTD.		PAPELIS, Y.	41,602	1,800	-	-	43,402	28,211		71,613		VMASC

SCHEDULE 5
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
ENTERPRISE CENTERS INCLUDING PROJECTS REPORTED AS ACTIVITY
OF AN ACADEMIC DEPARTMENT
(b) MEASURED BY EXPENDITURES INCURRED
FOR FISCAL YEAR 2018

PROJECT NUMBER			PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS		EFFECTIVE INDIRECT COST RATE	CENTER
				PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS		
300446-010	*	OLD DOMINION UNIVERSITY	PARODI, A.	26,928	-	-	-	26,928	-	-	26,928	VMASC	
400284-010	*	THE GENEVA FOUNDATION	PARODI, A.	43,924	(98)	-	-	43,826	24,104	-	67,931	VMASC	
100710-010	*	NAVAL SPEC WARFARE DEVELOPMENT GROUP	RECHOWICZ, K.	6,958	800	-	-	7,758	5,043	-	12,800	VMASC	
100531-001	*	NAVAL SEA SYSTEMS COMMAND	ROBINSON, R.	14,760	-	-	-	14,760	9,594	-	24,353	VMASC	
200244-011	*	VA PORT AUTHORITY	ROBINSON, R.	5,528	-	-	-	5,528	3,040	-	8,568	VMASC	
200258-010	*	VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	ROBINSON, R.	7,728	34	-	-	7,762	4,269	-	12,031	VMASC	
200259-010	*	VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	ROBINSON, R.	2,551	354	-	-	2,905	1,598	-	4,502	VMASC	
300258-010	*	UNIVERSITY OF MARYLAND	ROBINSON, R.	4,445	763	-	-	5,208	2,760	-	7,968	VMASC	
300462-010		OLD DOMINION UNIVERSITY	ROBINSON, R.	57,133	4,825	-	9,775	71,733	-	-	71,733	VMASC	
100617-010		AIR FORCE MATERIAL COMMAND	SHETTY, S.	85,336	29,288	-	-	114,624	63,043	-	177,667	VMASC	
300388-010		NORFOLK STATE UNIVERSITY	SHETTY, S.	37,839	16,352	-	9,503	63,694	29,805	-	93,500	VMASC	
300390-010		UNIVERSITY OF ILLINOIS (ALL CAMPUSES)	SHETTY, S.	125,099	24,789	-	19,686	169,574	82,438	-	252,012	VMASC	
300397-010		UNIVERSITY OF ILLINOIS (ALL CAMPUSES)	SHETTY, S.	29,807	21,056	-	6,939	57,802	27,975	-	85,777	VMASC	
400358-010		SENTARA HOSPITALS	SHETTY, S.	39,567	12,882	-	-	52,449	28,847	-	81,296	VMASC	
100590-010		NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	-	-	-	783	783	282	-	1,065	VMASC	
100622-010		NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	2,730	-	-	10,631	13,361	4,809	-	18,170	VMASC	
100624-010		NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	719	-	-	27,048	27,767	276	-	28,043	VMASC	
100629-010		NORFOLK NAVAL SHIPYARD	WEISEL, E.	-	12,245	-	-	12,245	3,918	-	16,163	VMASC	
100634-010		NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	3,909	-	-	434,059	437,968	1,407	-	439,375	VMASC	
100642-010		NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	1,483	-	-	48,831	50,314	534	-	50,847	VMASC	
100643-010		NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	36,522	4,109	-	-	40,631	14,627	-	55,259	VMASC	
100647-010		NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	4,516	67,049	-	-	71,565	25,763	-	97,328	VMASC	
400193-000		NONE	WEISEL, E.	5,978	33,815	-	-	39,793	-	-	39,793	VMASC	
500339-010		OCEAN BAY, LLC	WEISEL, E.	51,224	-	-	-	51,224	28,173	-	79,398	VMASC	
				1,546,154	313,815	1,372	593,178	2,454,520	810,682	-	3,265,201	33.03%	
				4,389,816	1,129,042	240,873	1,725,365	7,485,096	2,526,232	-	10,011,328	33.75%	

SCHEDULE 6

Sponsored Program Activity

Proposals Submitted and Awards Funded

Fiscal Year 2018 through Fiscal Year 2014

SCHEDULE 6
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF PROPOSAL AND AWARD ACTIVITY
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2014

	PROPOSALS SUBMITTED					AWARDS FUNDED				
	FY 18	FY 17	FY 16	FY 15	FY 14	FY 18	FY 17	FY 16	FY 15	FY 14
COLLEGE OF ARTS & LETTERS										
Communication & Theatre Arts	\$ 98,956	\$ 418,145	\$ 43,829	\$ 252,579	\$ 620,942	\$ -	\$ -	\$ 30,340	\$ 22,500	\$ -
English	4,000	-	712,206	125,456	43,063	146,385	128,777	1,000	46,956	28,939
Foreign Languages & Literatures	-	-	-	89,078	213,307	-	-	-	-	6,494
History	75,000	54,630	6,300	100,000	53,782	75,000	60,930	-	-	44,487
Music	-	-	-	4,600	-	-	-	-	-	-
Philosophy & Religious Studies	18,680	19,980	67,565	77,305	135,017	-	-	18,612	-	-
Political Science & Geography	629,132	3,330,522	186,390	836,072	581,193	100,415	64,773	81,285	17,500	56,737
Social Science Research Center	281,686	591,003	461,893	3,345,297	266,380	193,540	167,967	206,114	60,000	204,366
Sociology & Criminal Justice	1,588,925	610,177	3,878,504	3,127,178	4,977,302	599,664	951,946	442,507	2,000	-
Women's Studies	-	-	-	-	-	18,886	-	-	-	-
Dean's Office	4,950	96,363	58,025	-	1,650	-	-	-	-	27,827
College Total	\$ 2,701,328	\$ 5,120,820	\$ 5,414,712	\$ 7,957,564	\$ 6,892,636	\$ 1,133,890	\$ 1,374,393	\$ 779,858	\$ 148,956	\$ 368,850
% Change from prior year	-47.25%	-5.43%	-31.96%	15.45%	28.28%	-17.50%	76.24%	423.55%	-59.62%	-17.32%
Average yearly increase (decrease)	-9.95%					30.83%				
STROME COLLEGE OF BUSINESS										
Business Administration	\$ -	\$ -	\$ 2,500	\$ -	\$ -	\$ -	\$ -	\$ 2,500	\$ -	\$ -
Economics	131,296	2,684,711	473,697	10,834	149,497	100,000	113,137	83,615	85,997	50,000
Finance, Insurance and Real Estate	-	-	-	614,859	13,501	-	-	-	-	-
Information Systems/Decision Science	1,644,963	3,035,573	2,222,702	2,783,518	2,082,405	338,655	296,496	18,612	186,997	190,589
Marketing	-	243,271	286,630	-	139,708	-	15,000	14,999	-	-
School of Public Service	565,023	236,694	569,923	363,993	493,384	45,128	17,425	77,738	-	-
College Total	\$ 2,341,282	\$ 6,200,248	\$ 3,555,452	\$ 3,773,205	\$ 2,878,495	\$ 483,782	\$ 442,058	\$ 197,464	\$ 272,994	\$ 240,589
% Change from prior year	-62.24%	74.39%	-5.77%	31.08%	90.12%	9.44%	123.87%	-27.67%	13.47%	97.41%
Average yearly increase (decrease)	10.93%					59.39%				
DARDEN COLLEGE OF EDUCATION AND PROFESSIONAL STUDIES										
Center for Educ Partnerships	\$ 22,940,225	\$ 6,650,683	\$ 7,772,693	\$ 4,552,356	\$ 13,872,006	\$ 39,049	\$ 34,404	\$ 725,198	\$ 296,328	\$ 303,028
Communication Disorders and Special Education	8,552,305	16,834,358	7,622,526	8,570,881	9,160,608	3,824,280	4,292,759	3,539,575	3,386,586	3,445,431
Counseling and Human Services	1,390,103	1,533,580	645,822	1,754,803	1,082,910	334,421	369,333	73,835	176,362	142,154
Educational Foundations and Leadership	325,492	2,324,355	2,382,606	1,224,373	4,477,339	395,910	231,430	75,768	153,738	164,121
Human Movement Sciences	156,884	877,430	1,927,374	255,247	2,039,566	24,715	62,765	34,441	82,648	196,134
STEM Education and Professional Studies	2,039,326	1,894,113	3,048,362	3,165,398	4,836,792	358,351	376,911	470,534	251,662	636,790
Teaching and Learning	1,657,126	1,259,055	3,040,287	1,799,602	3,237,050	32,000	245,308	-	790,864	761,182
Dean's Office	702,703	4,183,851	823,334	872,701	272,536	468,185	784,748	776,000	472,536	412,038
College Total	\$ 37,764,164	\$ 35,557,426	\$ 27,263,004	\$ 22,195,361	\$ 38,978,807	\$ 5,476,911	\$ 6,397,658	\$ 5,695,350	\$ 5,610,724	\$ 6,060,878
% Change from prior year	6.21%	30.42%	22.83%	-43.06%	100.00%	-14.39%	12.33%	1.51%	-7.43%	0.93%
Average yearly increase (decrease)	18.75%					-1.76%				

SCHEDULE 6
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF PROPOSAL AND AWARD ACTIVITY
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2014

	PROPOSALS SUBMITTED					AWARDS FUNDED				
	FY 18	FY 17	FY 16	FY 15	FY 14	FY 18	FY 17	FY 16	FY 15	FY 14
BATTEN COLLEGE OF ENGINEERING & TECHNOLOGY										
Center for Advanced Engineering Environments									590,469	1,009,393
Civil & Environmental Engineering	11,070,179	9,811,865	9,094,065	5,166,059	3,214,466	562,086	1,147,780	1,726,005	-	-
Electrical & Computer Engineering	18,663,198	15,636,002	13,939,958	17,739,574	15,923,596	3,286,824	2,723,430	2,289,620	2,509,953	2,791,842
Engineering Career Management Center	-	-	-	5,619,632	1,891,456	-	-	-	-	-
Engineering Management	8,964,742	10,490,564	2,742,809	-	-	736,806	446,196	157,466	810,804	195,111
Engineering Technology	6,841,175	13,828,359	6,568,428	5,376,504	4,672,026	1,469,064	312,765	1,669,592	383,531	158,290
Mechanical & Aerospace Engineering	9,837,146	5,813,200	5,971,306	12,040,934	7,632,052	1,148,510	978,171	1,366,851	1,429,282	809,129
Modeling, Simulation & Visualization Engineering	11,870,761	11,632,827	26,217,111	9,431,733	22,293,259	2,245,758	2,594,582	2,249,559	3,555,337	3,745,625
National Centers Systems of Systems Engineering	-	-	-	-	-	-	-	-	-	-
Dean's Office	2,196,972	4,218,917	996,955	13,677,760	6,332,123	1,217,236	1,593,522	334,999	50,000	110,000
College Total	\$ 69,444,173	\$ 71,431,734	\$ 65,530,632	\$ 69,052,195	\$ 61,958,978	\$ 10,666,284	\$ 9,796,447	\$ 9,794,091	\$ 9,329,377	\$ 8,819,390
% Change from prior year	-2.78%	9.01%	-5.10%	11.45%	42.21%	8.88%	0.02%	4.98%	5.78%	25.13%
Average yearly increase (decrease)	11.88%					10.27%				
COLLEGE OF HEALTH SCIENCES										
Community & Environmental Health	\$ 1,920,808	\$ 2,422,111	\$ 1,552,092	\$ 2,382,036	\$ 996,695	\$ 108,495	\$ 227,814	\$ 106,949	\$ 86,680	\$ 129,951
Dental Hygiene	248,698	330,369	1,085,532	680,315	641,555	21,347	21,380	35,322	84,050	37,692
Medical Diagnostic & Translation Sciences	7,401,738	14,773,634	3,651,458	12,477,283	12,748,599	1,016,435	879,152	2,147,602	1,461,533	500,044
Nursing	741,252	1,949,918	4,407,576	2,524,806	3,077,080	902,948	1,928,280	1,801,399	1,248,605	608,348
Physical Therapy	2,160,993	3,218,919	1,417,021	634,050	1,769,146	-	88,183	12,779	209,912	162,539
Dean's Office	34,320	295,366	579,594	1,109,558	76,419	332,822	-	-	15,000	57,773
College Total	\$ 12,507,808	\$ 22,990,316	\$ 12,693,272	\$ 19,808,047	\$ 19,309,494	\$ 2,385,546	\$ 3,144,809	\$ 4,104,051	\$ 3,105,780	\$ 1,496,347
% Change from prior year	-45.60%	81.12%	-35.92%	2.58%	130.58%	-24.14%	-23.37%	32.14%	107.56%	-45.45%
Average yearly increase (decrease)	9.87%					-2.61%				
COLLEGE OF SCIENCES										
Biological Sciences	\$ 20,180,662	\$ 21,225,853	\$ 19,806,536	\$ 20,545,968	\$ 24,134,374	\$ 8,630,596	\$ 2,156,245	\$ 2,372,424	\$ 1,582,361	\$ 1,128,100
Center for Coastal Physical Oceanography	1,505,198	6,905,188	4,265,269	5,606,910	5,599,819	984,115	483,646	640,905	356,119	391,085
Chemistry and Biochemistry	10,074,984	110,099,209	124,085,044	13,398,330	127,289,760	1,755,060	3,142,914	1,935,570	2,827,521	2,055,441
Computer Science	9,280,151	5,577,469	7,474,239	12,097,893	14,572,710	754,950	1,167,987	2,293,408	3,424,949	653,188
Mathematics and Statistics	7,666,647	3,261,498	3,494,460	3,722,864	3,522,753	809,420	607,848	406,255	485,547	872,259
Ocean, Earth & Atmospheric Sciences	7,955,365	13,842,728	19,028,932	13,837,812	15,085,778	2,311,194	4,093,621	3,700,789	2,942,012	1,718,930
Physics	9,097,709	10,824,028	14,332,714	6,155,595	16,123,862	3,208,820	2,499,353	3,325,122	3,768,552	4,417,928
Psychology	9,321,721	8,336,627	1,958,008	12,080,538	8,060,032	1,010,540	1,477,708	1,822,824	865,194	1,397,956
Dean's Office	-	643,150	-	361,500	-	33,600	-	-	-	5,366
College Total	\$ 75,082,437	\$ 180,715,749	\$ 194,445,201	\$ 87,807,410	\$ 214,389,088	\$ 19,498,294	\$ 15,629,323	\$ 16,497,298	\$ 16,252,254	\$ 12,640,253
% Change from prior year	-58.45%	-7.06%	121.45%	-59.04%	138.71%	24.75%	-5.26%	1.51%	28.58%	-31.19%
Average yearly increase (decrease)	-3.28%					1.23%				

SCHEDULE 6
OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF PROPOSAL AND AWARD ACTIVITY
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2014

	PROPOSALS SUBMITTED					AWARDS FUNDED				
	FY 18	FY 17	FY 16	FY 15	FY 14	FY 18	FY 17	FY 16	FY 15	FY 14
OFFICE OF RESEARCH AND OTHER UNITS										
Office of Research	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Virginia Modeling, Analysis & Simulation Center	25,179,745	24,853,771	21,340,031	30,809,977	18,066,607	2,530,191	1,107,570	1,524,927	1,506,024	2,127,012
Frank Reidy Research Center for Bioelectrics	17,801,256	21,092,036	24,452,423	26,309,702	19,511,697	2,998,236	2,398,392	3,792,085	2,122,087	3,851,893
Center for Enterprise Innovation	2,415,998	918,265	3,086,737	2,912,549	10,044,214	1,024,493	2,122,192	1,826,114	815,531	1,755,592
The Graduate School	1,767,104	-	-	-	-	750,568	-	-	-	-
Miscellaneous Units	3,771,939	5,163,059	6,127,395	983,823	527,557	470,002	1,706,003	581,113	506,581	708,657
Total Office of Research and Other Activity	\$ 50,936,042	\$ 52,027,131	\$ 55,006,587	\$ 61,016,051	\$ 48,150,075	\$ 7,773,490	\$ 7,334,156	\$ 7,724,240	\$ 4,950,223	\$ 8,443,154
% Change from prior year	-2.10%	-5.42%	-9.85%	26.72%	42.54%	5.99%	-5.05%	56.04%	-41.37%	30.88%
Average yearly increase (decrease)	10.16%					4.10%				
TOTAL UNIVERSITY ACTIVITY										
	\$ 250,777,234	\$ 374,043,424	\$ 363,908,861	\$ 271,609,834	\$ 392,557,573	\$ 47,418,197	\$ 44,118,845	\$ 44,792,351	\$ 39,670,309	\$ 38,069,461
% Change from prior year	-32.96%	2.78%	33.98%	-30.81%	94.42%	7.48%	-1.50%	12.91%	4.21%	-7.57%
Average yearly increase (decrease)	4.84%					3.03%				
AFFILIATED ACTIVITY										
VA Tidewater Consortium for Higher Education	\$ 125,615	\$ 630,744	\$ 2,390,142	\$ 10,542,015	\$ -	\$ 641,939	\$ 517,182	\$ 605,170	\$ 577,534	\$ 455,057
VA Space Grant Consortium	4,900,217	2,147,569	4,874,897	6,988,483	3,735,036	2,158,725	4,361,998	1,877,883	3,299,640	5,822,264
Total Non-University Activity	\$ 5,025,832	\$ 2,778,313	\$ 7,265,039	\$ 17,530,498	\$ 3,735,036	\$ 2,800,664	\$ 4,879,180	\$ 2,483,053	\$ 3,877,174	\$ 6,277,321
% Change from prior year	80.90%	-61.76%	-58.56%	369.35%	-53.55%	-42.60%	96.50%	-35.96%	-38.24%	-1.05%
Average yearly increase (decrease)	-7.50%					-11.17%				
GRAND TOTAL										
	\$ 255,803,066	\$ 376,821,737	\$ 371,173,899	\$ 289,140,332	\$ 396,292,609	\$ 50,218,861	\$ 48,998,025	\$ 47,275,404	\$ 43,547,483	\$ 44,346,782
% CHANGE FROM PRIOR YEAR	-32.12%	1.52%	28.37%	-27.04%	88.75%	2.49%	3.64%	8.56%	-1.80%	7.67%
Average yearly increase (decrease)	4.37%					4.39%				