Old Dominion University Research Foundation

To: Distribution

From: Julian F. Facenda
Executive Director

Date: October 31, 2019

Subject: Annual Report of Sponsored Program Activity - June 30, 2019

Attached please find the Annual Report of Sponsored Program Activity for the fiscal year ended June 30, 2019. 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, 2019 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 increase by 5.2% from fiscal year 2018 to $44.8 million.
- Expenditures in excess of $1 million by funding source for the fiscal year were:

National Science Foundation	$ 8.1 million
U.S. Department of Health and Human Services	$ 6.0 million
U.S. Navy	$ 3.7 million
U.S. Department of Education	$ 2.9 million
Virginia Department of Education	$ 2.1 million
U.S. Department of Energy	$ 1.6 million
National Aeronautics and Space Administration	$ 1.5 million
Virginia Department of Environmental Quality	$ 1.1 million
Jefferson Science Associates, LLC (JLAB)	$ 1.0 million
U.S. Air Force	$ 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 Bioelectrics 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:

Electrical & Computer Engineering	$ 4.3 million
Communication Disorders and Special Education	$ 4.2 million
Physics	$ 3.9 million
Virginia Modeling, Analysis and Simulation Center	$ 3.7 million
Ocean, Earth and Atmospheric Sciences	$ 3.7 million
Biological Sciences	$ 2.8 million
Chemistry and Biochemistry	$ 2.4 million
Medical Diagnostic and Translational Sciences	$ 2.3 million
Computation Modeling & Simulation Engineering	$ 2.1 million
Computer Sciences	$ 1.4 million
Dean of Engineering	$ 1.3 million
Institute for Innovation & Enterprise	$ 1.1 million
Mechanical and Aerospace Engineering	$ 1.0 million

- Total University proposal submissions during fiscal year 2019 decreased 8.4% to $229.7 million dollars. Total University Awards funded during fiscal year 2019 decreased 1.6% from fiscal year 2018 levels to $46.6 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 2019 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 $234 million dollars during fiscal year 2019. 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

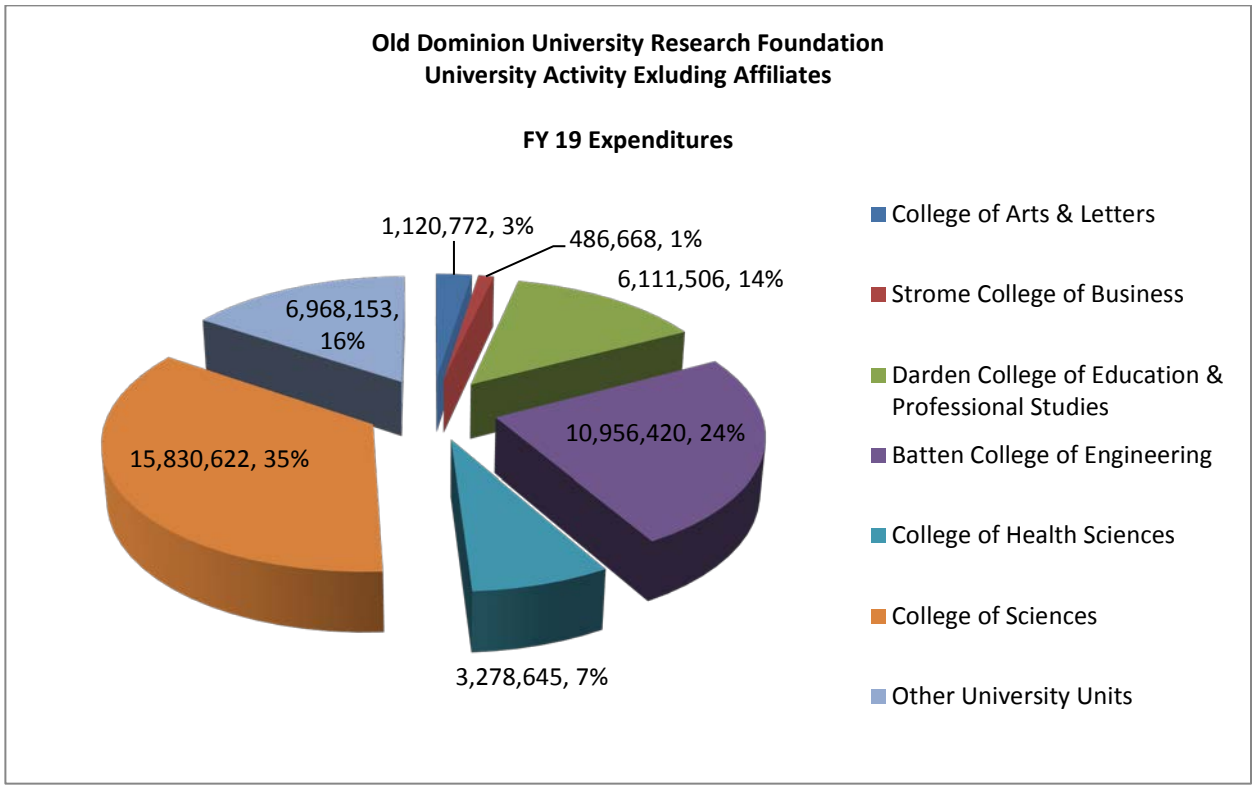
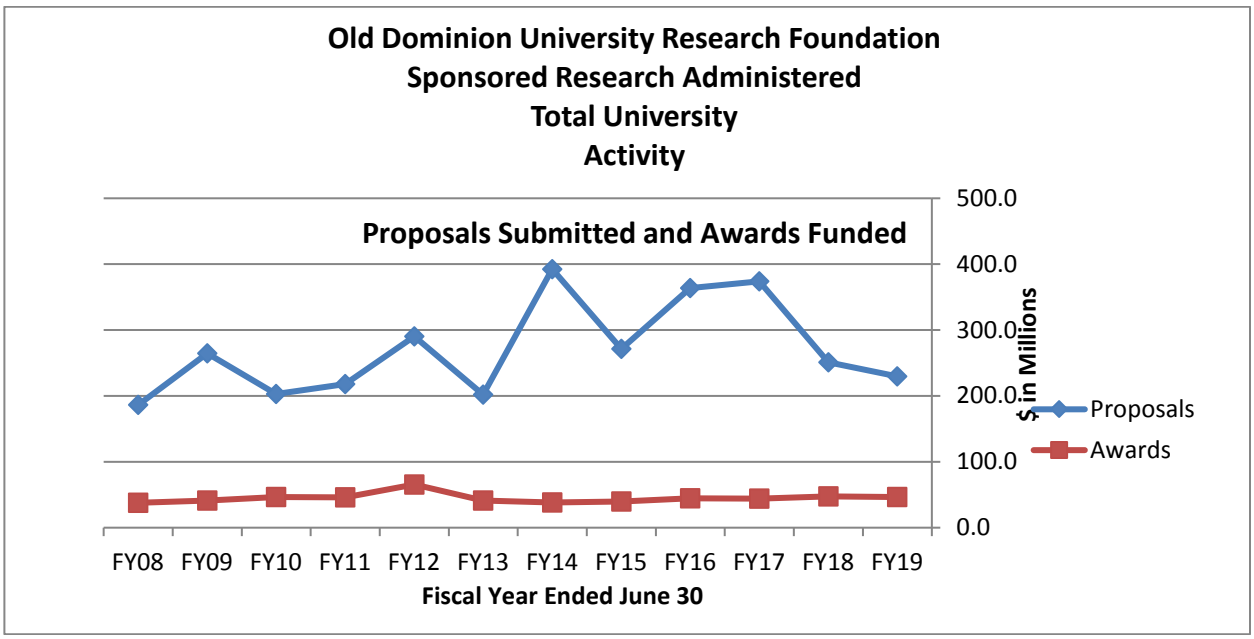


Chart B – Proposals Submitted and Awards Funded



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CONTENTS

Schedule 1 - Summary of Sponsored Program Activity
Fiscal Year 2019 through Fiscal Year 2014

Schedule 2 - Summary of Sponsored Program Activity by Major Funding
Source – Fiscal Year 2019 through Fiscal Year 2015

Schedule 3 - Comparison of Direct Cost, Indirect Cost and Effective Indirect
Cost Rates – University Units – Fiscal Year 2019 through Fiscal Year 2017

Schedule 4 - Sponsored Program Activity Individual Project Listing
Fiscal Year 2019

Schedule 5 - Enterprise Centers Including Projects Reported as Activity of an
Academic Department – Fiscal Year 2019

Schedule 6 - Sponsored Program Activity – Proposals Submitted and
Awards Funded – Fiscal Year 2019 through Fiscal Year 2015

SCHEDULE 1

Summary of Sponsored Program Activity

Fiscal Year 2019 through Fiscal Year 2014

SCHEDULE 1

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF SPONSORED PROGRAM ACTIVITY

(MEASURED BY EXPENDITURES INCURRED)

FISCAL YEAR 2019 THROUGH FISCAL YEAR 2014

	FY 19	FY 18	FY 17	FY 16	FY 15	FY 14
COLLEGE OF ARTS & LETTERS						
Dean's Office	$ 1,999	$ -	$ -	$ 2,129	$ 14,430	$ 30,491
Communication & Theatre Arts	-	-	2,075	33,450	1,868	6,905
English	126,801	106,763	63,828	50,117	60,229	81,313
Foreign Languages/Literatures	-	-	-	-	3,826	1,867
History	17,014	75,116	6,300	4,259	26,459	58,682
History - Cybersecurity	2,818					
Political Science & Geography	74,398	77,207	27,324	61,425	29,781	83,956
Philosophy & Religious Studies	-	-	14,629	3,455	-	-
Social Science Research Center	148,221	208,762	166,351	149,199	130,809	175,408
Sociology & Criminal Justice	743,055	766,128	475,311	12,752	13,661	7,384
Women's Studies	6,465	8,255	15,128	-	-	-
College Total	$ 1,120,772	$ 1,242,232	$ 770,946	$ 316,786	$ 281,063	$ 446,006
% Change from prior year	-9.78%	61.13%	143.37%	12.71%	-36.98%	-1.36%
Average yearly increase (decrease)	30.26%	34.94%				
STROME COLLEGE OF BUSINESS						
Economics	139,880	123,154	70,370	126,425	(442)	60,093
Finance	-	-	-	2,444	7,495	-
Information Systems & Decision Sciences	224,332	95,253	139,319	158,436	148,544	-
Information Systems & Decision Sciences - Cybersecurity	78,759	66,241	381	-	-	-
Management	-	-	663	1,293	-	-
Marketing	-	13,760	12,308	3,863	-	-
Public Service	43,697	46,269	25,276	10,262	10,404	22,176
College Total	$ 486,668	$ 344,677	$ 248,316	$ 302,722	$ 166,001	$ 82,269
% Change from prior year	41.20%	38.81%	-17.97%	82.36%	101.78%	-45.42%
Average yearly increase (decrease)	98.31%	25.74%				

DARDEN COLLEGE OF EDUCATION & PROFESSIONAL STUDIES

Dean's Office	$ 430,047	$ 498,687	$ 465,485	$ 436,482	$ 264,167	$ 320,669
Dean's Office - Cybersecurity	2,818	-	-	-	-	-
Center for Educational Partnerships	479,755	555,811	3,240,456	5,183,002	4,669,983	3,630,365
Communication Disorders and Special Education	4,231,210	3,812,902	3,842,934	3,708,022	3,650,009	3,544,135
Counseling and Human Services	368,595	299,968	345,081	72,310	111,934	124,783
Educational Foundations and Leadership	186,213	229,172	562,137	816,336	798,728	916,845
Human Movement Sciences	9,228	30,066	48,658	41,308	109,017	124,789
STEM Education and Professional Studies	144,548	283,082	842,959	1,320,821	1,848,198	1,730,137
Teaching and Learning	259,091	308,853	410,023	520,525	433,989	483,439
College Total	$ 6,111,506	$ 6,018,542	$ 9,757,734	$ 12,098,806	$ 11,886,025	$ 10,875,162
% Change from prior year	1.54%	-38.32%	-19.35%	1.79%	9.30%	34.83%
Average yearly increase (decrease)	-8.76%	-5.08%				

BATTEN COLLEGE OF ENGINEERING & TECHNOLOGY

Dean's Office	$ 1,271,521	$ 533,243	$ 415,031	$ 290,154	$ 101,365	$ 111,954
Civil & Environmental Engineering	942,355	1,013,126	1,381,257	890,440	648,563	510,504
Civil & Environmental Engineering - VMASC	-	-	-	47,474	-	47,752
Electrical & Computer Engineering	1,416,907	1,469,081	1,216,735	921,054	893,818	1,213,846
Electrical & Computer Engineering - ARC	466,449	475,757	504,233	591,501	1,189,505	1,055,824
Electrical & Computer Engineering - Bioelectrics	1,610,403	1,045,485	534,322	775,182	1,043,637	379,808
Electrical & Computer Engineering - Cybersecurity	838,891	65,508	43,706	-	-	-
Engineering Career Management Center	-	-	-	-	-	103,513
Engineering Management and Systems Engineering	605,194	554,560	414,241	410,275	536,522	136,861
Engineering Management and Systems Engineering - NCSOSE	-	-	-	11,012	41,687	158,340
Engineering Management and Systems Engineering - Cybersecurity	300,740	-	-	-	-	-
Engineering Technology	432,985	726,117	811,348	861,881	370,170	349,540
Engineering Technology - ARC	-	-	-	-	3,063	90,721
Mechanical & Aerospace Engineering	1,015,053	1,012,472	1,181,404	731,570	799,335	619,202
Mechanical & Aerospace Engineering - ARC	-	-	15,438	23,721	24,024	40,953
Computation Modeling & Simulation Engineering	1,735,799	567,858	578,878	505,132	398,185	452,114
Computation Modeling & Simulation Engineering - VMASC	-	690,251	597,087	2,003,612	3,087,263	2,754,598
Computation Modeling & Simulation Engineering - Cybersecurity	320,123	-	-	-	-	-
College Total	$ 10,956,420	$ 8,153,458	$ 7,693,679	$ 8,063,007	$ 9,137,137	$ 8,025,530
% Change from prior year	34.38%	5.98%	-4.58%	-11.76%	13.85%	-8.07%
Average yearly increase (decrease)	7.30%	-1.32%				

COLLEGE OF HEALTH SCIENCES

Dean's Office	$ 44,825	$ 17,920	$ -	$ (72)	$ 25,073	$ 5,744
Community & Environmental Health	203,805	209,101	98,912	95,308	99,218	355,423
Dental Hygiene	6,225	(20,221)	42,674	53,022	63,993	41,673
Medical Diagnostic & Translational Sciences	263,858	428,063	691,061	358,374	23,438	5,744
Medical Diagnostic & Translational Sciences - Bioelectrics	2,031,413	2,422,581	2,216,849	2,479,922	1,447,102	1,469,850
Nursing	647,734	1,077,828	1,937,351	1,362,754	930,615	646,297
School of Rehabilitation Sciences	80,785	122,050	80,427	100,441	199,606	227,299
College Total	$ 3,278,645	$ 4,257,321	$ 5,067,273	$ 4,449,749	$ 2,789,045	$ 2,752,030
% Change from prior year	-22.99%	-15.98%	13.88%	59.54%	1.35%	-3.66%
Average yearly increase (decrease)	3.83%	9.81%				

COLLEGE OF SCIENCES

Dean's Office	$ 37,964	$ -	$ -	$ 1,420	$ 8,820	$ 19,560
Biological Sciences	2,755,586	2,535,072	2,039,337	1,742,699	1,614,718	1,665,748
Biological Sciences - Bioelectrics	-	-	-	-	-	13,785
Center for Coastal Physical Oceanography	851,773	822,626	939,208	693,392	865,985	1,289,616
Center for Coastal Physical Oceanography - MARI	-	107,505	58,186	32,915	-	-
Chemistry and Biochemistry	2,393,826	2,315,738	2,618,322	2,202,356	1,780,131	1,519,745
Chemistry and Biochemistry - ARC	3,917	357	-	-	-	-
Chemistry and Biochemistry - VCERC	-	-	-	(5,971)	49,077	284,215
Computer Science	1,008,821	1,538,808	1,614,304	1,607,758	1,188,118	995,043
Computer Science - VMASC	107,538	-	-	-	-	-
Computer Science - Cybersecurity	317,670	-	-	-	-	-
Mathematics and Statistics	915,496	833,920	669,176	751,636	684,811	827,479
Ocean, Earth & Atmospheric Sciences	2,839,369	2,606,361	2,722,270	3,229,908	2,379,550	3,721,649
Ocean, Earth & Atmospheric Sciences - SSRP	-	499,463	558,257	349,294	494,657	285,222
Physics	3,874,396	3,439,875	3,571,771	3,562,835	3,415,041	4,097,273
Psychology	724,267	1,192,251	1,221,594	1,326,747	1,292,856	1,536,955
College Total	$ 15,830,622	$ 15,891,977	$ 16,012,427	$ 15,494,987	$ 13,773,764	$ 16,256,290
% Change from prior year	-0.39%	-0.75%	3.34%	12.50%	-15.27%	7.14%
Average yearly increase (decrease)	-0.52%	0.95%				

OFFICE OF RESEARCH AND OTHER UNITS

VMASC: Virginia Modeling, Analysis & Simulation Center	$ 3,699,337	$ 2,574,951	$ 2,386,352	$ 1,822,109	$ 1,995,708	$ 2,199,704
Frank Reidy Research Center for Bioelectrics	963,475	1,528,092	2,267,188	1,350,583	516,121	386,742
The Graduate School	81,109	169,352	-	-	-	-
Institute for Innovation & Entrepreneurship	1,174,567	1,313,045	1,709,338	1,658,975	1,355,165	1,365,604
Miscellaneous ODU Units	832,665	859,658	933,229	898,552	744,696	662,388
Miscellaneous ODU Units - Cybersecurity	217,001	184,928	-	-	-	-
Total Other Units	$ 6,968,154	$ 6,630,025	$ 7,296,107	$ 5,730,219	$ 4,611,690	$ 4,614,438
% Change from prior year	5.10%	-9.13%	27.33%	24.25%	-0.06%	-19.97%
Average yearly increase (decrease)	10.20%	3.00%				
TOTAL UNIVERSITY ACTIVITY	$ 44,752,786	$ 42,538,232	$ 46,846,483	$ 46,456,275	$ 42,644,725	$ 43,051,725
% CHANGE FROM PRIOR YEAR	5.21%	-9.20%	0.84%	8.94%	-0.95%	4.51%
Average yearly increase (decrease)	0.79%	0.65%				
AFFILIATED ACTIVITY						
Virginia Commercial Space Flight Authority	$ -	$ -	$ -	$ -	$ 13,442,449	$ 20,074,491
Virginia Space Flight Academy	-	-	-	-	-	21,042
Virginia Tidewater Consortium for Higher Education	662,057	576,141	575,071	633,094	567,905	670,218
Virginia Space Grant Consortium	3,486,217	3,485,841	3,499,493	3,369,477	4,136,516	4,683,565
TOTAL AFFILIATED ACTIVITY	$ 4,148,274	$ 4,061,982	$ 4,074,564	$ 4,002,572	$ 18,146,870	$ 25,449,316
% CHANGE FROM PRIOR YEAR	2.12%	-0.31%	1.80%	-77.94%	-28.69%	-22.37%
Average yearly increase (decrease)	-16.74%	-17.52%				
GRAND TOTAL	48,901,060	46,600,214	50,921,047	50,458,846	60,791,595	68,501,041

SCHEDULE 2

Summary of University Activity

Major Funding Source

Fiscal Year 2019 through Fiscal Year 2015

SCHEDULE 2

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SUMMARY OF UNIVERSITY ACTIVITY BY MAJOR FUNDING SOURCE

(MEASURED BY EXPENDITURES INCURRED)

FISCAL YEAR 2019 THROUGH FISCAL YEAR 2015

FUNDING SOURCE / AGENCY	FY19 Amount	FY19 Percent of Total	FY18 Amount	FY18 Percent of Total	FY17 Amount	FY17 Percent of Total	FY16 Amount	FY16 Percent of Total	FY15 Amount	FY15 Percent of Total
FEDERAL										
National Science Foundation	$ 8,433,159	17.2%	$ 6,529,391	14.0%	$ 6,721,391	14.3%	$ 6,551,190	14.1%	585401202.0%	13.7%
U.S. Department of Health & Human Services	5,993,011	12.3%	6,304,663	13.5%	6,633,834	14.2%	4,254,422	9.2%	2,980,391	7.0%
United States Navy	3,086,452	6.3%	1,747,861	3.8%	2,230,435	4.8%	3,063,024	6.6%	3,366,028	7.9%
National Aeronautics & Space Administration	2,383,714	4.9%	2,676,528	5.7%	1,464,654	3.1%	1,157,102	2.5%	1,293,397	3.0%
U.S. Department of Energy	1,468,616	3.0%	1,487,637	3.2%	1,507,898	3.2%	1,644,625	3.5%	-	0.0%
U.S. Department of Education	1,197,367	2.4%	1,467,534	3.1%	4,216,252	9.0%	6,693,743	14.4%	8,634,757	20.2%
United States Air Force	555,232	1.1%	865,729	1.9%	493,352	1.1%	261,040	0.6%	35,265	0.1%
Small Business Administration	472,226	1.0%	485,835	1.0%	483,600	1.0%	400,172	0.9%	420,985	1.0%
Fermi National Accelerator Lab	373,702	0.8%	167,137	0.4%	159,185	0.3%	251,207	0.5%	351,579	0.8%
United States Army	252,225	0.5%	195,239	0.4%	6,079	0.0%	11,638	0.0%	162,513	0.4%
AMES Research Labs	224,239	0.5%	74,070	0.2%	65,865	0.1%	45,922	0.1%	2,354	0.0%
National Oceanic & Atmospheric Administration	181,623	0.4%	199,609	0.4%	257,530	0.5%	63,088	0.1%	35,092	0.1%
U.S. Department of Agriculture	172,167	0.4%	167,973	0.4%	139,902	0.3%	707	0.0%	-	0.0%
U.S. Department of Justice	164,119	0.3%	136,825	0.3%	6,218	0.0%	101,136	0.2%	58,648	0.1%
SERDP	146,561	0.3%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
National Security Agency	113,989	0.2%	-	0.0%	99,401	0.2%	17,275	0.0%	-	0.0%
Institute of Museum and Library Services	78,293	0.2%	161,725	0.3%	248,376	0.5%	322,314	0.7%	219,942	0.5%
U.S. Fish and Wildlife	66,331	0.1%	69,229	0.1%	58,186	0.1%	27,916	0.1%		0.0%
National Endowment/Humanities	26,185	0.1%	230,079	0.5%	110,225	0.2%	242,957	0.5%	126,131	0.3%
U.S. Environmental Protection Agency	6,783	0.0%	7,500	0.0%	17,770	0.0%	66,944	0.1%	60,940	0.1%
National Institute of Standards and Technology	-	0.0%	107,400	0.2%	164,434	0.4%	349,808	0.8%	251,433	0.6%
NON-DISCLOSED SPONSORS	-	0.0%	-	0.0%	71,852	0.2%	-	0.0%	-	0.0%
U.S. Department of Defense - Other	-	0.0%	-	0.0%	94,468	0.2%	367,194	0.8%	617,406	1.4%
U.S. Department of Housing and Urban Development	-	0.0%	-	0.0%	52,377	0.1%	100,248	0.2%	6,576	0.0%
Other Federal	144,844	0.3%	183,831	0.4%	80,309	0.2%	130,086	0.3%	200,135	0.5%
SUBTOTAL FEDERAL	$ 25,540,836	51.9%	$ 23,265,797	49.5%	$ 25,383,592	54.0%	$ 26,123,759	56.0%	$ 24,677,586	57.4%

SCHEDULE 2

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF UNIVERSITY ACTIVITY BY MAJOR FUNDING SOURCE

(MEASURED BY EXPENDITURES INCURRED)

FISCAL YEAR 2019 THROUGH FISCAL YEAR 2015

FUNDING SOURCE / AGENCY	FY19 Amount	FY19 Percent of Total	FY18 Amount	FY18 Percent of Total	FY17 Amount	FY17 Percent of Total	FY16 Amount	FY16 Percent of Total	FY15 Amount	FY15 Percent of Total
STATE & LOCAL GOVERNMENT AND AGREEMENTS WITH OTHER UNIVERSITIES										
Old Dominion University - See Note	$ 9,940,511	20.3%	$ 9,398,469	20.2%	$ 8,805,528	18.8%	$ 7,912,031	17.0%	$ 7,024,744	16.5%
State Council of Higher Education for Virginia	858,379	1.8%	819,088	1.8%	-	0.0%	48,032	0.1%	109,031	0.3%
University of Virginia	555,268	1.1%	600,296	1.3%	444,556	0.9%	306,900	0.7%	233,490	0.5%
VA Polytechnic Institute and State University	338,460	0.7%	336,387	0.7%	37,868	0.1%	50,062	0.1%	276,454	0.6%
Norfolk State University	327,700	0.7%	316,229	0.7%	302,588	0.6%	182,110	0.4%	49,419	0.1%
Governor's Office	308,404	0.6%	347,249	0.7%	452,707	1.0%	424,733	0.9%	-	0.0%
Virginia Marine Resources Commission	272,292	0.6%	275,789	0.6%	281,506	0.6%	268,114	0.6%	306,969	0.7%
University of Oregon	268,443	0.5%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Virginia Institute of Marine Sciences	255,519	0.5%	196,123	0.4%	122,410	0.3%	101,293	0.2%	77,524	0.2%
Hampton Roads Sanitation District Commission	242,952	0.5%	172,771	0.4%	109,972	0.2%	113,734	0.3%	186,822	0.4%
Virginia Department of Emergency Management	242,109	0.5%	236,566	0.5%	87,512	0.2%	85,308	0.2%	99,816	0.2%
University of Illinois	231,972	0.5%	337,789	0.7%	263,331	0.6%	-	0.0%	128,817	0.3%
Colorado School of Mines	214,465	0.4%	235,350	0.5%	37,712	0.1%	-	0.0%	-	0.0%
Texas A&M University	206,563	0.4%	163,353	0.4%	133,692	0.3%	130,156	0.3%	59,947	0.1%
State University of New Jersey (all campuses)	183,320	0.4%	172,197	0.4%	224,870	0.5%	131,470	0.3%	152,130	0.4%
Crater Planning District Commission	158,477	0.3%	124,991	0.3%	131,139	0.3%	146,141	0.3%	111,352	0.3%
Center of Innovative Technology	155,448	0.3%	-	0.0%	-	0.0%	129,133	0.3%	83,791	0.2%
Virginia Department of Motor Vehicles	153,096	0.3%	275,445	0.6%	234,061	0.5%	246,916	0.5%	262,515	0.6%
Michigan State University	119,238	0.2%	111,685	0.2%	71,699	0.2%	111,461	0.2%	184,156	0.4%
Arizona State University	111,238	0.2%	19,921	0.0%	16,832	0.0%	18,168	0.0%	-	0.0%
George Mason University	104,373	0.2%	116,977	0.3%	140,655	0.3%	165,351	0.4%	56,657	0.1%
Eastern Virginia Medical School	83,473	0.2%	64,979	0.1%	107,954	0.2%	162,934	0.4%	145,427	0.3%
Temple University	74,952	0.2%	77,635	0.2%	111,014	0.2%	59,589	0.1%	48,262	0.1%
Florida Fish & Wildlife Conservation Commission	69,643	0.1%	67,166	0.1%	61,844	0.1%	47,258	0.1%	-	0.0%
Virginia Department of Transportation	59,797	0.1%	83,698	0.2%	66,089	0.1%	71,051	0.2%	85,179	0.2%
Iowa State University	55,263	0.4%	200,681	0.4%	229,776	0.4%	236,604	0.4%	221,568	0.5%
City of Virginia Beach	46,010	0.8%	43,932	0.8%	18,504	0.8%	247,497	0.5%	456,935	1.1%
City of Portsmouth	31,621	0.1%	40,468	0.1%	21,821	0.0%	151,616	0.3%	343,603	0.8%
University of Southern Mississippi	28,112	0.1%	71,863	0.2%	163,162	0.3%	50,764	0.1%	36,788	0.1%
University of Maryland	23,261	0.0%	34,433	0.1%	140,576	0.3%	114,225	0.2%	54,735	0.1%
State University of New Jersey	-	0.0%	-	0.0%	224,870	0.5%	131,470	0.3%	152,130	0.4%
University of Michigan	-	0.0%	111,685	0.2%	71,699	0.2%	110,461	0.2%	184,156	0.4%
North Carolina State University	-	0.0%	85,589	0.2%	61,517	0.1%	43,004	0.1%	57,743	0.1%
Rochester Institue of Technology	-	0.0%	51,750	0.1%	60,514	0.1%	73,600	0.2%	46	0.0%
University of Colorado	-	0.0%	3,575	0.0%	63,635	0.1%	19,475	0.0%	-	0.0%
Georgia Regents University	-	0.5%	-	0.5%	307,004	0.5%	535,479	0.5%	321,166	0.8%
Johns-Hopkins Hospital	-	0.0%	-	0.0%	121,847	0.3%	43,157	0.1%	-	0.0%
Commonwealth Health Research Board	-	0.0%	-	0.0%	91,828	0.2%	81,654	0.2%	-	0.0%
University of Idaho	-	0.0%	-	0.0%	-	0.0%	109,712	0.2%	373,854	0.9%
Florida Department of Environmental Protection	-	0.0%	-	0.0%	-	0.0%	107,779	0.2%	2,584	0.0%
Virginia Department of Environmental Quality	-	0.0%	-	0.0%	-	0.0%	-	0.4%	269,920	0.4%
University of Southern California	-	0.0%	-	0.0%	84,742	0.2%	115,849	0.2%	124,226	0.3%
University of Toledo	-	0.0%	(16,299)	0.0%	-	0.0%	2,482	0.0%	(9,562)	0.0%
Other State & Local	776,470	1.6%	955,946	2.1%	914,049	1.9%	794,034	1.7%	117,430	0.3%
SUBTOTAL STATE & LOCAL	$ 16,496,828	35.2%	$ 16,133,774	35.7%	$ 14,821,085	32.1%	$ 13,880,806	29.6%	$ 12,389,827	28.9%

SCHEDULE 2

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF UNIVERSITY ACTIVITY BY MAJOR FUNDING SOURCE
(MEASURED BY EXPENDITURES INCURRED)
FISCAL YEAR 2019 THROUGH FISCAL YEAR 2015

FUNDING SOURCE / AGENCY	FY19 Amount	FY19 Percent of Total	FY18 Amount	FY18 Percent of Total	FY17 Amount	FY17 Percent of Total	FY16 Amount	FY16 Percent of Total	FY15 Amount	FY15 Percent of Total
PRIVATE AND OTHER SPONSORS										
Jefferson Science Associates	$ 1,037,551	2.1%	$ 1,004,818	2.2%	$ 1,178,928	2.5%	$ 1,164,984	2.5%	$ 1,061,585	2.5%
Pulse Biosciences, Inc.	705,637	1.4%	906,568	1.9%	854,008	1.8%	1,006,931	2.2%	214,159	0.5%
National Institute of Aerospace	465,890	1.0%	469,843	1.0%	473,785	1.0%	459,190	1.0%	319,519	0.7%
The National Academies	457,152	0.9%	398,008	0.9%	37,576	0.1%	-	0.0%	-	0.0%
Camber Corporation	311,458	0.6%	115,206	0.2%	-	0.0%	-	0.0%	-	0.0%
Sentara Hospitals	295,977	0.6%	81,296	0.2%	(245)	0.0%	56,745	0.1%	63,766	0.1%
WR Systems LTD	252,545	0.5%	119,355	0.3%	-	0.0%	-	0.0%	19,030	0.0%
Southern Universities Research Assocation (SURA)	246,227	0.5%	121,800	0.3%	-	0.0%	-	0.0%	-	0.0%
Hogan-Lovells	187,384	0.4%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
University of Southampton	183,197	0.4%	463,067	1.0%	594,160	1.3%	606,869	1.3%	613,368	1.4%
World Conservation Union (IUCN)	157,874	0.3%	188,617	0.4%	213,108	0.5%	152,773	0.3%	134,104	0.3%
Opportunity, Inc.	121,344	0.2%	91,583	0.2%	-	0.0%	14,376	0.0%	118,474	0.3%
Lifenet	104,238	0.2%	45	0.0%	100,905	0.2%	9,679	0.0%	3,360	0.0%
Engility	93,518	0.2%	94,136	0.2%	126,096	0.3%	85,513	0.2%	-	0.0%
ALEX - Alternative Experts, LLC	85,309	0.2%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
University of Agder	85,040	0.2%	58,937	0.1%	84,299	0.2%	-	0.0%	-	0.0%
CACI, Inc.--Federal	82,909	0.2%	163,551	0.4%	-	0.0%	-	0.0%	-	0.0%
Pew Charitable Trusts	81,025	0.2%	33,755	0.1%	-	0.0%	-	0.0%	-	0.0%
Jeffress	79,919	0.2%	112,751	0.2%	123,323	0.3%	90,880	0.2%	75,561	0.2%
Commonwealth Center for Advanced Manufacturing	76,656	0.2%	70,423	0.2%	148,902	0.3%	117,383	0.3%	138,773	0.3%
Ocean Bay, LLC	71,939	0.1%	85,398	0.2%	-	0.0%	-	0.0%	-	0.0%
Children's Heath Foundation, Inc.	69,372	0.1%	53,569	0.1%	23,664	0.1%	-	0.0%	52,493	0.1%
Non-Disclosed	61,175	0.1%	157,383	0.3%	181,808	0.4%	170,200	0.4%	136,827	0.3%
Genedge Alliance (formerly Philpott Manufacturing)	54,135	0.1%	179,259	0.4%	307,053	0.7%	259,820	0.6%	223,265	0.5%
BEM Controls, LLC	53,882	0.1%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Wildlife Management Institute	53,808	0.1%	-	0.0%		0.0%		0.0%		0.0%
Ohio Suicide Prevention Foundation	52,950	0.1%	5,660	0.0%	-	0.0%	-	0.0%	-	0.0%
Vr Rehab, Inc.	45,071	0.1%	85,746	0.2%	-	0.0%	-	0.0%	-	0.0%
Blue Moon Fund	39,987	0.1%	48,955	0.1%	147,305	0.3%	166,253	0.4%	-	0.0%
Ferring Pharmaceuticals Inc.	37,631	0.1%	135,072	0.3%	43,345	0.1%	-	0.0%	-	0.0%
Plasser American Corporation	35,480	0.1%	87,212	0.2%	10,307	0.0%	-	0.0%	-	0.0%
Midland GIS Solutions	14,916	0.0%	66,996	0.1%	-	0.0%		0.0%	-	0.0%
General Dynamics	13,127	0.0%	-	0.0%	-	0.0%	97,954	0.2%	-	0.0%
Center for Mind and Culture	7,436	0.0%	155,875	0.3%	-	0.0%	-	0.0%	-	0.0%
Battelle Corporation	6,268	0.0%	90,337	0.2%	152,594	0.3%	41,146	0.1%	-	0.0%
Qatar University	(11,325)	0.0%	27,745	0.1%	84,255	0.2%	127,698	0.3%	25,861	0.1%
The Geneva Foundation	-	0.0%	90,574	0.2%	227,252	0.5%	110,173	0.2%	-	0.0%
NATO	-	0.0%	56,000	0.1%	56,800	0.1%		0.0%	-	0.0%
Dominion Resources Services, Inc.	-	0.0%	19,068	0.0%	(2,504)	0.0%	158,722	0.3%	122,159	0.3%
LMI	-	0.0%	-	0.0%	100,704	0.2%	113,096	0.2%	127,880	0.3%
Boston VA Research Institute, Inc	-	0.0%	-	0.0%	61,417	0.1%	67,810	0.1%	-	0.0%
Stihl	-	0.0%	-	0.0%	29,394	0.1%	100,103	0.2%	16,103	0.0%
American Diabetes Association	-	0.0%	-	0.0%	15,093	0.0%	55,927	0.1%	194,606	0.5%
Advanced Anti-Terror Technologies, Inc.	-	0.0%	-	0.0%	-	0.0%	117,383	0.3%	106,091	0.2%
OncoSec Medical, Inc.	-	0.0%	-	0.0%	-	0.0%	25,764	0.1%	129,990	0.3%
Continental Automotive Systems, Inc	-	0.0%	-	0.0%	-	0.0%	-	0.0%	148,000	0.3%
Cubic Applications, Inc.	-	0.0%	-	0.0%	-	0.0%	-	0.0%	147,073	0.3%
Medical Cyberworlds, Inc.	-	0.0%	-	0.0%	-	0.0%	-	0.0%	139,377	0.3%
Applied Research Associates, Inc.		0.0%	109,811	0.2%	-	0.0%	-	0.0%	-	0.0%
Other Private Sponsors	1,146,692	2.3%	1,252,227	2.7%	1,214,327	2.6%	1,046,718	2.3%	1,107,117	2.6%
SUBTOTAL PRIVATE	$ 6,863,396	14.0%	$ 7,200,645	15.5%	$ 6,671,804	14.2%	$ 6,451,709	13.9%	$ 5,577,313	13.1%
TOTAL	$ 48,901,060	101.1%	$ 46,600,216	100.7%	$ 46,876,482	100.3%	$ 46,456,274	99.5%	$ 42,644,726	99.3%

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

SCHEDULE 2

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF UNIVERSITY ACTIVITY BY MAJOR FUNDING SOURCE
(MEASURED BY EXPENDITURES INCURRED)
FISCAL YEAR 2019 THROUGH FISCAL YEAR 2015

FUNDING SOURCE / AGENCY	FY19 Amount	FY19 Percent of Total	FY18 Amount	FY18 Percent of Total	FY17 Amount	FY17 Percent of Total	FY16 Amount	FY16 Percent of Total	FY15 Amount	FY15 Percent of Total
Old Dominion University pass through from:										
U.S. Department of Education	$ 2,279,784	4.7%	$ 2,107,455	4.5%	$ 1,173,032	2.5%	$ 758,034	1.6%	$ 420,562	1.0%
Virginia Department Of Education	2,148,830	4.4%	2,299,531	4.9%	3,464,512	7.4%	4,138,355	8.9%	4,008,186	9.4%
Virginia Department of Environmental Quality	1,134,626	2.3%	1,179,356	2.5%	1,236,651	2.6%	1,068,484	2.3%	909,391	2.1%
United States Air Force	1,007,042	2.1%	1,684,133	3.6%	1,304,868	2.8%	466,154	1.0%	-	0.0%
Virginia Biosciences Health Research Corp.	632,238	1.3%	106,679	0.2%	339,013	0.7%	508,416	1.1%	-	0.0%
United States Navy	601,723	1.2%	151,106	0.3%	-	0.0%	-	0.0%	-	0.0%
Hampton Roads Cyber Collaboration	600,656	1.2%	71,733	0.2%	-	0.0%	-	0.0%	-	0.0%
U.S. Department of Labor	361,896	0.7%	553,902	1.2%	364,696	0.8%	-	0.0%	-	0.0%
Old Dominion University	359,595	0.7%	247,671	0.5%	376,791	0.8%	352,261	0.8%	639,858	1.5%
National Aeronautics & Space Administration	296,181	0.6%	330,780	0.7%	-	0.0%	-	0.0%	-	0.0%
Virginia Department Of Behavorial Health and Developmental Services	183,488	0.4%	224,750	0.5%	192,742	0.4%	76,500	0.2%	57,140	0.1%
U.S. Department of Energy	155,540	0.3%	90,334	0.2%	226,505	0.5%	480,206	1.0%	245,720	0.6%
Foreign	40,857	0.1%	62,128	0.1%	-	0.0%	(210)	0.0%	194,204	0.5%
Virginia Department Of Health	36,505	0.1%	-	0.0%	4,349	0.0%	-	0.0%	-	0.0%
State Council of Higher Education for Virginia	(100)	0.0%	101,004	0.2%	17,139	0.0%	-	0.0%	-	0.0%
Other Sponsors	101,651	0.2%	187,908	0.4%	105,230	0.2%	63,831	0.1%	549,682	1.3%
Old Dominion University Total	$ 9,940,511	20.3%	$ 9,398,469	20.2%	$ 8,805,528	18.8%	$ 7,912,031	17.0%	$ 7,024,744	16.5%

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 2019 through Fiscal Year 2017

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 2019 THROUGH FISCAL YEAR 2017

	Fiscal Year 2019				Fiscal Year 2018				Fiscal Year 2017			
	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	$ 1,999	$ -	$ 1,999	0.0%	$ -	$ -	$ -	0.0%	$ -	$ -	$ -	0.0%
Communication and Theatre Arts	-	-	-	0.0%	-	-	-	0.0%	2,075	-	2,075	0.0%
English	120,525	6,276	126,801	5.2%	100,876	5,887	106,763	5.8%	58,683	5,145	63,828	8.8%
History	9,276	7,738	17,014	83.4%	75,116	-	75,116	0.0%	6,300	-	6,300	0.0%
Philosophy & Religious Studies - Cybersecurity	1,818	1,000	2,818	55.0%	-	-	-	0.0%	9,155	5,474	14,629	59.8%
Political Science & Geography	58,723	15,675	74,398	26.7%	55,679	21,528	77,207	38.7%	19,907	7,417	27,324	37.3%
Social Science Research Center	128,683	19,538	148,221	15.2%	189,245	19,517	208,762	10.3%	153,287	13,064	166,351	8.5%
Sociology & Criminal Justice	573,332	169,723	743,055	29.6%	646,432	119,697	766,128	18.5%	348,563	126,748	475,311	36.4%
Women's Studies	6,465	-	6,465	0.0%	8,255	-	8,255	0.0%	15,128	-	15,128	0.0%
College Total	$ 900,821	$ 219,950	$ 1,120,772	24.4%	$ 1,075,603	$ 166,629	$ 1,242,231	15.5%	$ 613,097	$ 157,849	$ 770,946	25.7%
COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION												
Economics	$ 95,017	$ 44,863	$ 139,880	47.2%	$ 113,057	$ 10,097	$ 123,154	8.9%	$ 47,904	$ 22,466	$ 70,370	46.9%
Information Systems / Decision Sciences	206,883	17,449	224,332	8.4%	62,755	32,499	95,253	51.8%	93,184	46,135	139,319	49.5%
Information Systems & Decision Sciences - CYBERSECURITY	64,322	14,437	78,759	22.4%	51,716	14,525	66,241	28.1%	381	-	381	0.0%
Management	-	-	-	0.0%	-	-	-	0.0%	663	-	663	0.0%
Marketing	-	-	-	0.0%	11,008	2,752	13,760	25.0%	9,847	2,462	12,308	25.0%
Public Service	35,697	8,001	43,697	22.4%	31,661	14,608	46,269	46.1%	17,488	7,788	25,276	44.5%
College Total	$ 401,919	$ 84,749	$ 486,668	21.1%	$ 270,197	$ 74,481	$ 344,677	27.6%	$ 169,465	$ 78,851	$ 248,316	46.5%
COLLEGE OF EDUCATION												
Dean's Office	$ 430,047	$ -	$ 430,047	0.0%	$ 498,687	$ -	$ 498,687	0.0%	$ 456,897	$ 8,588	$ 465,485	1.9%
Dean's Office - Cybersecurity	1,818	1,000	2,818	55.0%	-	-	-	0.0%	-	-	-	0.0%
Center for Education Partnerships	444,863	34,892	479,755	7.8%	537,382	18,429	555,811	3.4%	3,008,429	232,028	3,240,457	7.7%
Communication Disorders and Special Education	3,880,395	350,816	4,231,210	9.0%	3,527,428	285,474	3,812,902	8.1%	3,573,972	268,962	3,842,934	7.5%
Counseling and Human Services	355,883	12,713	368,595	3.6%	289,571	10,396	299,968	3.6%	330,903	14,177	345,081	4.3%
Educational Foundations and Leadership	139,533	46,681	186,213	33.5%	173,444	55,728	229,172	32.1%	482,372	79,765	562,137	16.5%
Human Movement Sciences	9,228	-	9,228	0.0%	30,013	53	30,066	0.2%	45,923	2,734	48,658	6.0%
STEM Education and Professional Studies	107,847	36,701	144,548	34.0%	261,567	21,515	283,082	8.2%	761,856	81,103	842,959	10.6%
Teaching and Learning	226,187	32,904	259,091	14.5%	269,854	39,000	308,853	14.5%	359,562	50,462	410,023	14.0%
College Total	$ 5,595,800	$ 515,706	$ 6,111,506	9.2%	$ 5,587,947	$ 430,595	$ 6,018,542	7.7%	$ 9,019,915	$ 737,818	$ 9,757,734	8.2%

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 2019 THROUGH FISCAL YEAR 2017

	Fiscal Year 2019				Fiscal Year 2018				Fiscal Year 2017			
	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	$ 983,927	$ 287,594	$ 1,271,521	29.2%	$ 424,865	$ 108,378	$ 533,243	25.5%	$ 271,427	$ 143,603	$ 415,031	52.9%
Civil & Environmental Engineering	700,483	241,873	942,356	34.5%	797,222	215,904	1,013,126	27.1%	1,119,109	262,148	1,381,257	23.4%
Electrical & Computer Engineering	1,029,710	387,197	1,416,907	37.6%	1,020,967	448,113	1,469,081	43.9%	844,860	373,270	1,218,130	44.2%
Electrical & Computer Engineering - ARC	367,620	98,829	466,449	26.9%	356,225	119,532	475,757	33.6%	393,407	109,434	502,841	27.8%
Electrical & Computer Engineering - Bioelectrics	1,264,333	346,070	1,610,403	27.4%	685,184	360,301	1,045,485	52.6%	369,388	164,935	534,323	44.7%
Electrical & Computer Engineering - CYBERSECURITY	770,985	67,906	838,892	8.8%	58,408	7,101	65,508	12.2%	30,676	13,031	43,706	42.5%
Engineering Management and Systems Engineering	410,629	194,564	605,194	47.4%	367,836	186,724	554,560	50.8%	290,176	124,065	414,241	42.8%
Engineering Management and Systems Engineering - Cybersecur	300,740	-	300,740	0.0%	-	-	-	0.0%	-	-	-	0.0%
Engineering Technology	317,150	115,835	432,985	36.5%	574,639	151,477	726,117	26.4%	628,690	182,658	811,348	29.1%
Mechanical & Aerospace Engineering	801,325	213,728	1,015,053	26.7%	745,804	266,668	1,012,472	35.8%	889,564	291,840	1,181,404	32.8%
Mechanical & Aerospace Engineering - ARC	-	-	-	0.0%	-	-	-	0.0%	15,438	-	15,438	0.0%
Computation Modeling & Simulation Engineering	1,233,990	501,809	1,735,799	40.7%	396,259	171,599	567,858	43.3%	376,226	202,649	578,875	53.9%
Computation Modeling & Simulation Engineering - VMASC	-	-	-	0.0%	458,142	232,108	690,251	50.7%	527,027	70,061	597,088	13.3%
Computation Modeling & Simulation Engineering - Cybersecurity	313,671	6,452	320,123	2.1%	-	-	-	0.0%	-	-	-	0.0%
College Total	$ 8,494,563	$ 2,461,857	$ 10,956,420	29.0%	$ 5,885,552	$ 2,267,907	$ 8,153,459	38.5%	$ 5,755,988	$ 1,937,694	$ 7,693,682	33.7%
COLLEGE OF HEALTH SCIENCES												
Dean's Office	$ 41,227	$ 3,598	$ 44,825	8.7%	$ 17,352	$ 568	$ 17,920	3.3%	$ -	$ -	$ -	0.0%
Community & Environmental Health	167,928	35,877	203,805	21.4%	155,379	53,722	209,101	34.6%	86,087	12,824	98,912	14.9%
Dental Hygiene	5,764	461	6,225	8.0%	(15,216)	(5,005)	(20,221)	32.9%	34,843	7,831	42,674	22.5%
Medical Diagnostic & Translational Sciences	217,839	46,018	263,858	21.1%	364,162	63,900	428,063	17.5%	582,198	108,863	691,061	18.7%
Medical Diagnostic & Translational Sciences - Bioelectrics	1,433,430	597,983	2,031,413	41.7%	1,874,813	547,768	2,422,581	29.2%	1,637,580	579,271	2,216,851	35.4%
Nursing	618,705	29,029	647,734	4.7%	1,032,499	45,329	1,077,828	4.4%	1,858,132	79,219	1,937,351	4.3%
School of Rehabilitation Sciences	77,255	3,529	80,785	4.6%	115,783	6,267	122,050	5.4%	74,224	6,203	80,427	8.4%
College Total	$ 2,562,149	$ 716,496	$ 3,278,645	28.0%	$ 3,544,772	$ 712,549	$ 4,257,321	20.1%	$ 4,273,064	$ 794,211	$ 5,067,275	18.6%

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 2019 THROUGH FISCAL YEAR 2017

	Fiscal Year 2019				Fiscal Year 2018				Fiscal Year 2017			
	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	$ 24,813	$ 13,151	$ 37,964	53.0%	$ -	$ -	$ -	0.0%	$ -	$ -	$ -	0.0%
Biological Sciences	2,236,900	518,686	2,755,586	23.2%	2,047,524	487,548	2,535,072	23.8%	1,690,759	348,578	2,039,337	20.6%
Center for Coastal Physical Oceanography	529,359	282,003	811,361	53.3%	579,340	243,286	822,626	42.0%	710,014	229,194	939,208	32.3%
Center for Coastal Physical Oceanography - MARI	40,332	80	40,412	0.2%	104,002	3,503	107,505	3.4%	58,186	-	58,186	0.0%
Chemistry and Biochemistry	1,814,855	578,971	2,393,826	31.9%	1,761,776	553,963	2,315,738	31.4%	1,988,626	629,696	2,618,322	31.7%
Chemistry and Biochemistry - ARC	3,013	904	3,917	30.0%	263	94	357	35.8%	-	-	-	0.0%
Computer Sciences	817,294	191,526	1,008,821	23.4%	1,160,155	378,653	1,538,808	32.6%	1,187,779	426,526	1,614,304	35.9%
Computer Sciences - ARC	88,513	19,024	107,538	21.5%	-		-	0.0%	-	-	-	0.0%
Computer Sciences - Cybersecurity	312,456	5,213	317,670	1.7%	-	-	-	0.0%	-	-	-	0.0%
Mathematics & Statistics	719,652	195,845	915,496	27.2%	653,234	180,686	833,920	27.7%	525,980	143,196	669,176	27.2%
Ocean, Earth & Atmospheric Sciences	2,086,305	753,064	2,839,369	36.1%	1,949,829	656,532	2,606,361	33.7%	2,006,550	715,720	2,722,270	35.7%
Ocean, Earth & Atmospheric Sciences - SSRP	-	-	-	0.0%	412,654	86,810	499,463	21.0%	455,646	102,611	558,257	22.5%
Physics	3,128,475	745,921	3,874,396	23.8%	2,777,603	662,272	3,439,875	23.8%	2,906,176	665,595	3,571,771	22.9%
Psychology	567,597	156,670	724,267	27.6%	973,559	218,693	1,192,251	22.5%	956,613	264,981	1,221,594	27.7%
College Total	$ 12,369,564	$ 3,461,059	$ 15,830,622	28.0%	$ 12,419,938	$ 3,472,039	$ 15,891,977	28.0%	$ 12,486,330	$ 3,526,097	$ 16,012,427	28.2%
OFFICE OF RESEARCH AND OTHER ACTIVITY												
Frank Reidy Research Center for Bioelectrics	$ 653,323	$ 310,152	$ 963,475	47.5%	$ 1,054,270	$ 473,822	$ 1,528,092	44.9%	$ 1,485,982	$ 781,204	$ 2,267,186	52.6%
Virginia Modeling, Analysis and Simulation Center	3,143,126	556,211	3,699,337	17.7%	1,996,377	578,573	2,574,951	29.0%	1,769,842	616,510	2,386,352	34.8%
The Graduate School	64,446	16,663	81,109	25.9%	141,159	28,193	169,352	20.0%	-	-	-	0.0%
Institute for Innovation & Entrepreneurship	1,021,496	153,071	1,174,567	15.0%	1,150,599	162,446	1,313,045	14.1%	1,552,527	156,811	1,709,338	10.1%
Miscellaneous ODU Units	746,229	86,436	832,665	11.6%	784,646	75,012	859,658	9.6%	829,495	103,731	933,226	12.5%
Miscellaneous ODU Units - Cybersecurity	166,577	50,424	217,001	30.3%	151,910	33,018	184,928	21.7%	-	-	-	0.0%
College Total Other Units	$ 5,795,196	$ 1,172,958	$ 6,968,154	20.2%	$ 5,278,960	$ 1,351,065	$ 6,630,025	25.6%	$ 5,637,847	$ 1,658,255	$ 7,296,102	29.4%
TOTAL UNIVERSITY ACTIVITY	$ 36,120,012	$ 8,632,775	$ 44,752,787	23.9%	$ 34,062,968	$ 8,475,264	$ 42,538,233	24.9%	$ 37,955,707	$ 8,890,775	$ 46,846,482	23.4%
AFFILIATED ACTIVITY												
Virginia Space Grant Consortium	3,278,671	207,546	3,486,217	6.3%	3,274,896	210,945	3,485,841	6.4%	3,231,281	268,213	3,499,493	8.3%
Virginia Tidewater Consortium for Higher Education	615,601	46,456	662,057	7.5%	534,687	41,454	576,141	7.8%	533,395	41,676	575,071	7.8%
TOTAL AFFILIATED ACTIVITY	$ 3,894,272	$ 254,002	$ 4,148,274	13.9%	$ 3,809,584	$ 252,398	$ 4,061,982	14.2%	$ 3,764,675	$ 309,889	$ 4,074,564	16.1%
GRAND TOTAL	$ 40,014,284	$ 8,886,777	$ 48,901,060	22.2%	$ 37,872,552	$ 8,727,663	$ 46,600,215	23.0%	$ 41,720,383	$ 9,200,664	$ 50,921,047	22.1%

SSRP= self supporting research program

SCHEDULE 4

Sponsored Program Activity

Individual Project Listing

Fiscal Year 2019

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES					
PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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 ARTS AND LETTERS												
Dean's Office												
200279-010	NORFOLK COMMISSION ON THE ARTS & HUMANITIES	STRAWN, C.	-	1,999	-	-	1,999	-	-	1,999		TRAD
			-	1,999	-	-	1,999	-	-	1,999	0.00%	
English												
400363-010	ASSOCIATION FOR COMPUTING MACHINERY	RICHARDS, D.	-	750	-	40	790	-		790		TRAD
300396-010	* OLD DOMINION UNIVERSITY	ZAREVA, A.	47,145	31,306	-	41,285	119,735	6,276	-	126,011		TRAD
			47,145	32,056	-	41,325	120,525	6,276	-	126,801	5.21%	
History												
600219-010	NORWEGIAN MARITIME MUSEUM	HEIDBRINK, I.	29,762	-	-	-	29,762	7,738	-	37,500		TRAD
300426-010	UNIVERSITY OF MICHIGAN	NUTZMAN, M.	(5,486)	-	-	-	(5,486)	-	-	(5,486)		TRAD
400326-010	AMERICAN COUNCIL OF LEARNED SOCIETIES	NUTZMAN, M.	(15,000)	-	-	-	(15,000)	-	-	(15,000)		TRAD
			9,276	-	-	-	9,276	7,738	-	17,014	83.42%	
Philosophy & Religious Studies - Cybersecurity												
100799-010	* NATIONAL SECURITY AGENCY	WITTKOWER, D.	1,818	-	-	-	1,818	1,000	-	2,818		TRAD
			1,818	-	-	-	1,818	1,000	-	2,818	55.00%	
Political Science and Geography												
100682-010	* U.S. FISH AND WILDLIFE SERVICES	ALLEN, T.	13,761	-	-	-	13,761	3,578	-	17,339		TRAD
300412-010	EAST CAROLINA STATE UNIVERSITY	ALLEN, T.	1,404	-	-	-	1,404	772	-	2,175		TRAD
400361-010	WILDLIFE MANAGEMENT INSTITUTE	ALLEN, T.	40,986	1,719	-	-	42,705	11,103	-	53,808		TRAD
100682-010	* U.S. FISH AND WILDLIFE SERVICES	ALLEN, T.	-	853	-	-	853	222	-	1,075		TRAD
500336-010	* SCIENCE SYSTEMS & APPLICATIONS, INC.	ALLEN, T.	-	-	-	0	0	-	-	0		TRAD
			56,151	2,571	-	0	58,723	15,675	-	74,398	26.69%	
Sociology and Criminal Justice												
*	NATIONAL INSTITUTE OF JUSTICE	DAI, M.	94,238	11,308	-	523	106,069	58,050	-	164,119		TRAD
100792-010	NATIONAL INSTITUTE OF JUSTICE	DAI, M.	2,482	11,509	-	-	13,991	7,695	-	21,686		TRAD
200221-020	* CITY OF SUFFOLK	GAINEY, R.	1,665	-	-	-	1,665	433	-	2,098		TRAD
200248-010	* VIRGINIA OFFICE OF THE ATTORNEY GENERAL	GAINEY, R.	8,752	-	-	-	8,752	2,276	-	11,028		TRAD
300519-010	* EASTERN VIRGINIA MEDICAL SCHOOL	GAINEY, R.	467	269	-	-	735	-	-	735		TRAD
500372-010	* HOGAN-LOVELLS	GAINEY, R.	23,076	1,103	-	-	24,179	13,298	-	37,477		TRAD
200267-010	CITY OF PORTSMOUTH	SUMTER, M.	17,539	-	-	2,892	20,431	11,237	-	31,668		TRAD
200248-010	* VIRGINIA OFFICE OF THE ATTORNEY GENERAL	TRIPLETT, R.	8,752	-	-	-	8,752	2,276	-	11,028		TRAD
100581-010	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	YANG, X.	119,676	15,703	-	253,378	388,757	74,459	-	463,216		TRAD
			276,647	39,892	-	256,793	573,332	169,723	-	743,055	29.60%	
Women's Studies												
600205-010	UNIVERSITY OF TORONTO	FISH, J.	-	6,465	-	-	6,465	-	-	6,465		TRAD
			-	6,465	-	-	6,465	-	-	6,465	0.00%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES					
PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
Social Science Research Center												
200233-010	CITY OF PORTSMOUTH	VANDECAR-BURDIN, T.	-	(37)	-	-	(37)	(10)	-	(47)		SSRC
200254-010	CITY OF VIRGINIA BEACH	VANDECAR-BURDIN, T.	-	-	-	95	95	15	-	110		SSRC
200269-010	VIRGINIA BEACH DEPARTMENT OF PUBLIC HEALTH	VANDECAR-BURDIN, T.	2,757	42	-	-	2,798	1,539	-	4,337		SSRC
200285-010	CITY OF VIRGINIA BEACH	VANDECAR-BURDIN, T.	1,064	-	-	53	1,117	-	-	1,117		SSRC
200295-010	CITY OF CHESAPEAKE	VANDECAR-BURDIN, T.	412	480	-	-	892	491	-	1,382		SSRC
300312-010	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	4,855	(98)	-	-	4,757	238	-	4,995		SSRC
300433-010	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	-	-	-	564	564	-	-	564		SSRC
300450-010	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	-	-	-	-	-	(0)	-	(0)		SSRC
300481-010	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	21,633	4,813	-	-	26,446	1,322	-	27,769		SSRC
300513-010	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	16,538	13,430	-	-	29,969	1,498	-	31,467		SSRC
300521-010	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	6,580	1,831	-	-	8,411	-	-	8,411		SSRC
400371-010	AMERICAN SOCIETY OF BIOMECHANICS	VANDECAR-BURDIN, T.	490	-	-	-	490	269	-	759		SSRC
400411-010	VIRGINIA ARTS FESTIVAL	VANDECAR-BURDIN, T.	968	857	-	-	1,825	474	-	2,299		SSRC
200221-020	* CITY OF SUFFOLK	VANDECAR-BURDIN, T.	1,665	-	-	-	1,665	433	-	2,098		SSRC
200248-010	* VIRGINIA OFFICE OF THE ATTORNEY GENERAL	VANDECAR-BURDIN, T.	9,018	-	-	-	9,018	2,345	-	11,362		SSRC
300333-010	* OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	-	(15)	-	-	(15)	(1)	-	(16)		SSRC
300356-020	* OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	4,850	33	-	-	4,883	391	-	5,274		SSRC
300356-040	* OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	229	-	-	-	229	18	-	247		SSRC
300432-010	* OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	-	-	-	10,828	10,828	542	-	11,369		SSRC
300519-010	* EASTERN VIRGINIA MEDICAL SCHOOL	VANDECAR-BURDIN, T.	4,199	2,417	-	-	6,615	-	-	6,615		SSRC
500372-010	* HOGAN-LOVELLS	VANDECAR-BURDIN, T.	17,307	827	-	-	18,134	9,974	-	28,108		SSRC
			92,564	24,579	-	11,540	128,683	19,538	-	148,221	15.18%	
TOTAL ARTS AND LETTERS			**$ 483,600**	**$ 107,563**	**$ -**	**$ 309,658**	**$ 900,821**	**$ 219,950**	**$ -**	**$ 1,120,772**	**24.42%**	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES					
PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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													
500372-010	*	HOGAN-LOVELLS	AGARWAL, V.	11,538	551	-	-	12,089	6,649	-	18,738		TRAD
500372-010	*	HOGAN-LOVELLS	BLAKE-GONZALEZ, B.	5,769	276	-	-	6,045	3,325	-	9,369		TRAD
300520-010		GEORGE MASON UNIVERSITY	MCNAB, R.	13,948	2,489	-	-	16,436	1,644	-	18,080		TRAD
500372-010	*	HOGAN-LOVELLS	MCNAB, R.	57,689	2,757	-	-	60,447	33,246	-	93,692		TRAD
				88,944	6,073	-	-	95,017	44,863	-	139,880	47.22%	
Information Systems / Decision Sciences													
100621-010	*	NATIONAL SCIENCE FOUNDATION	HE, W.	2,105	-	-	-	2,105	1,158	-	3,263		TRAD
100731-010		NATIONAL SCIENCE FOUNDATION	HE, W.	165,931	-	-	-	165,931	-	-	165,931		TRAD
100621-010	*	NATIONAL SCIENCE FOUNDATION	HE, W.	4,237	1,149	-	-	5,385	2,962	-	8,347		TRAD
100673-010	*	NATIONAL SCIENCE FOUNDATION	LI, L.	8,114	258	-	4,613	12,986	4,605	-	17,590		TRAD
100621-010	*	NATIONAL SCIENCE FOUNDATION	XU, L.	6,342	1,149	-	-	7,490	4,120	-	11,610		TRAD
100673-010	*	NATIONAL SCIENCE FOUNDATION	XU, L.	8,114	258	-	4,613	12,986	4,605	-	17,590		TRAD
				194,843	2,814	-	9,226	206,883	17,449	-	224,332	8.43%	
Information Systems & Decision Sciences - CYBERSECURITY													
100648-010	*	NATIONAL SCIENCE FOUNDATION	HE, W.	2,556	6,001	-	22,129	30,686	4,706	-	35,392		CYBER
100706-010	*	NATIONAL SECURITY AGENCY	HE, W.	5,939	4,372	-	-	10,311	5,671	-	15,982		CYBER
100709-010	*	NATIONAL SCIENCE FOUNDATION	HE, W.	5,505	1,876	-	15,944	23,325	4,059	-	27,384		CYBER
				14,000	12,249	-	38,073	64,322	14,437	-	78,759	22.44%	
Public Service													
200246-010	*	CITY OF VIRGINIA BEACH	NICULA, J.	6,239	92	-	-	6,331	1,646	-	7,977		TRAD
100625-010	*	NATIONAL SCIENCE FOUNDATION	YUSUF, J.	1,793	155	-	-	1,948	1,071	-	3,020		TRAD
200246-010	*	CITY OF VIRGINIA BEACH	YUSUF, J.	6,239	92	-	-	6,331	1,646	-	7,977		TRAD
300366-010	*	UNIVERSITY OF NORTH CAROLINA	YUSUF, J.	3,011	3,603	-	-	6,613	3,637	-	10,251		TRAD
300471-010	*	VA INSTITUTE OF MARINE SCIENCE (VIMS)	YUSUF, J.	4,563	312	-	-	4,875	-	-	4,875		TRAD
300492-010	*	OLD DOMINION UNIVERSITY	YUSUF, J.	8,478	1,122	-	-	9,599	-	-	9,599		TRAD
				30,322	5,375	-	-	35,697	8,001	-	43,697	22.41%	
TOTAL BUSINESS AND PUBLIC ADMINISTRATION				**$ 328,108**	**$ 26,511**	**$ -**	**$ 47,300**	**$ 401,919**	**$ 84,749**	**$ -**	**$ 486,668**	21.09%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES				
PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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 & PROFESSIONAL STUDIES													
Dean's Office													
300360-040	*	OLD DOMINION UNIVERSITY	BARBER, M.	988	-	-	3,334	4,322	-	-	4,322		TRAD
300360-810		OLD DOMINION UNIVERSITY	BRAY, J.	55	37,291	-	2,557	39,903	-	-	39,903		TRAD
300360-020	*	OLD DOMINION UNIVERSITY	BRAY, J.	-	-	-	1,065	1,065	-	-	1,065		TRAD
300360-030	*	OLD DOMINION UNIVERSITY	BRAY, J.	3,355	2,624	-	25,489	31,468	-	-	31,468		TRAD
300360-040	*	OLD DOMINION UNIVERSITY	BRAY, J.	494	-	-	1,667	2,161	-	-	2,161		TRAD
300478-010	*	OLD DOMINION UNIVERSITY	BRAY, J.	-	3,927	-	43,067	46,993	-	-	46,993		TRAD
400389-010		THE UP CENTER	DICE, T.	10,000	-	-	-	10,000	-	-	10,000		TRAD
300360-030	*	OLD DOMINION UNIVERSITY	DICKINSON, G.	2,045	2,363	-	13,785	18,193	-	-	18,193		TRAD
300360-040	*	OLD DOMINION UNIVERSITY	DICKINSON, G.	988	-	-	3,334	4,322	-	-	4,322		TRAD
300478-010	*	OLD DOMINION UNIVERSITY	DICKINSON, G.	-	1,501	-	23,303	24,805	-	-	24,805		TRAD
300360-020	*	OLD DOMINION UNIVERSITY	SHAEFFER, M.	-	-	-	533	533	-	-	533		TRAD
300360-030	*	OLD DOMINION UNIVERSITY	SHAEFFER, M.	16,777	13,118	-	127,444	157,339	-	-	157,339		TRAD
300360-040	*	OLD DOMINION UNIVERSITY	SHAEFFER, M.	7,412	-	-	25,004	32,416	-	-	32,416		TRAD
300478-010	*	OLD DOMINION UNIVERSITY	SHAEFFER, M.	-	3,811	-	41,800	45,611	-	-	45,611		TRAD
300360-030	*	OLD DOMINION UNIVERSITY	UNDERWOOD, J.	1,227	1,418	-	8,271	10,916	-	-	10,916		TRAD
				43,342	66,052	-	320,652	430,047	-	-	430,047	0.00%	
Dean's Office - Cybersecurity													
100799-010	*	NATIONAL SECURITY AGENCY	DICE, T.	1,818	-	-	-	1,818	1,000.03		2,818		CYBER
				1,818	-	-	-	1,818	1,000	-	2,818	55.00%	
Center for Educational Partnerships													
300502-010	*	WESTERN WASHINGTON UNIVERSITY	BROBST, J.	11,518	64	-	-	11,582	609	-	12,191		TCEP
300503-010		WESTERN WASHINGTON UNIVERSITY	BROBST, J.	16,242	-	-	-	16,242	8,933	-	25,175		TCEP
100721-010	*	OFFICE OF NAVAL RESEARCH	CHAPPELL, S.	4,688	8,250	-	59,085	72,023	4,658	-	76,681		TCEP
200210-010	*	NEWPORT NEWS PUBLIC SCHOOLS	CHAPPELL, S.	2,265	-	-	-	2,265	-	-	2,265		TCEP
200213-010	*	CHESAPEAKE PUBLIC SCHOOLS	CHAPPELL, S.	5,710	-	-	-	5,710	-	-	5,710		TCEP
200216-010		VIRGINIA BEACH CITY PUBLIC SCHOOLS	CHAPPELL, S.	(376)	-	-	7,291	6,915	-	-	6,915		TCEP
300502-010	*	WESTERN WASHINGTON UNIVERSITY	CHAPPELL, S.	11,518	64	-	-	11,582	609	-	12,191		TCEP
200009-022		STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	GARNER, J.	553	1,666	-	-	2,219	-	-	2,219		TCEP
200188-040	*	OLD DOMINION UNIVERSITY	GARNER, J.	3,184	4,725	-	9,261	17,170	633	-	17,803		TCEP
200210-010	*	NEWPORT NEWS PUBLIC SCHOOLS	GARNER, J.	2,265	-	-	-	2,265	-	-	2,265		TCEP
200213-010	*	CHESAPEAKE PUBLIC SCHOOLS	GARNER, J.	5,710	-	-	-	5,710	-	-	5,710		TCEP
200225-010		PRINCE WILLIAM COUNTY PUBLIC SCHOOLS	GARNER, J.	7,789	-	-	-	7,789	4,284	-	12,073		TCEP
100721-010	*	OFFICE OF NAVAL RESEARCH	GARNER, J.	4,830	8,500	-	60,876	74,205	4,799	-	79,004		TCEP
200183-040	*	OLD DOMINION UNIVERSITY	GARNER, J.	2,784	5,197	-	4,706	12,687	639	-	13,326		TCEP
400354-010	*	CHESAPEAKE BAY FOUNDATION	GARNER, J.	-	1,468	-	-	1,468	-	-	1,468		TCEP
100721-010	*	OFFICE OF NAVAL RESEARCH	LONEY, M.	4,688	8,250	-	59,085	72,023	4,658	-	76,681		TCEP
200183-040	*	OLD DOMINION UNIVERSITY	LONEY, M.	6,497	12,127	-	10,980	29,603	1,490	-	31,093		TCEP
200188-040	*	OLD DOMINION UNIVERSITY	LONEY, M.	13,798	20,475	-	40,133	74,405	2,742	-	77,147		TCEP
200290-010	*	YORK COUNTY SCHOOLS	LONEY, M.	11,324	433	-	-	11,757	588	-	12,345		TCEP
400354-010	*	CHESAPEAKE BAY FOUNDATION	LONEY, M.	-	2,202	-	-	2,202	-	-	2,202		TCEP
200290-010	*	YORK COUNTY SCHOOLS	WEBSTER, H.	4,853	186	-	-	5,039	252	-	5,291		TCEP
				119,839	73,608	-	251,416	444,863	34,892	-	479,755	7.84%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES					
PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
Communication Disorders and Special Education													
300346-040	*	OLD DOMINION UNIVERSITY	BOBZIEN, J.	6,399	592	-	19,752	26,743	-	-	26,743		TRAD
100559-010	*	U.S. DEPARTMENT OF EDUCATION	BOBZIEN, J.	14,297	682	-	61,735	76,714	1,198	-	77,912		TRAD
300458-010	*	GEORGE MASON UNIVERSITY	BOBZIEN, J.	1,587	125	-	5,544	7,256	137	-	7,393		TRAD
300356-020	*	OLD DOMINION UNIVERSITY	GABLE, R.	-	33	-	-	33	3	-	35		TRAD
300449-010		OLD DOMINION UNIVERSITY	GABLE, R.	195,671	29,199	-	-	224,870	17,990	-	242,860		TRAD
300456-010	*	OLD DOMINION UNIVERSITY	GABLE, R.	167,892	27,874	-	4,886	200,653	15,661	-	216,314		TRAD
300456-020	*	OLD DOMINION UNIVERSITY	GABLE, R.	118,343	10,959	-	3,074	132,375	10,344	-	142,719		TRAD
300457-010	*	GEORGE MASON UNIVERSITY	GABLE, R.	423	372	-	2,682	3,478	64	-	3,541		TRAD
300458-010	*	GEORGE MASON UNIVERSITY	GABLE, R.	-	-	-	2,824	2,824	-	-	2,824		TRAD
300496-010	*	OLD DOMINION UNIVERSITY	GABLE, R.	884	-	-	-	884	71	-	955		TRAD
300333-010	*	OLD DOMINION UNIVERSITY	GABLE, R.	-	(75)	-	-	(75)	(6)	-	(81)		TRAD
300346-030	*	OLD DOMINION UNIVERSITY	GABLE, R.	-	-	-	1	1	-	-	1		TRAD
300346-040	*	OLD DOMINION UNIVERSITY	GABLE, R.	6,399	592	-	19,752	26,743	-	-	26,743		TRAD
300356-030	*	OLD DOMINION UNIVERSITY	GABLE, R.	6,892	25	-	-	6,917	553	-	7,471		TRAD
300356-040	*	OLD DOMINION UNIVERSITY	GABLE, R.	12,697	-	-	-	12,697	1,016	-	13,712		TRAD
300393-010	*	OLD DOMINION UNIVERSITY	GABLE, R.	68,317	17,831	-	-	86,147	6,892	-	93,039		TRAD
300404-010	*	OLD DOMINION UNIVERSITY	GABLE, R.	8,434	3,141	-	(0)	11,575	926	-	12,501		TRAD
300405-010	*	OLD DOMINION UNIVERSITY	GABLE, R.	3,046	18,636	-	3,434	25,116	1,734	-	26,849		TRAD
300405-020	*	OLD DOMINION UNIVERSITY	GABLE, R.	-	79,857	-	-	79,857	6,389	-	86,246		TRAD
300456-010	*	OLD DOMINION UNIVERSITY	GABLE, R.	29,903	32,258	-	8,320	70,481	4,973	-	75,454		TRAD
300456-020	*	OLD DOMINION UNIVERSITY	GABLE, R.	20,865	22,141	-	4,727	47,733	3,440	-	51,173		TRAD
300480-010	*	OLD DOMINION UNIVERSITY	GABLE, R.	100,238	48,354	-	15,338	163,930	11,887	-	175,818		TRAD
300496-010	*	OLD DOMINION UNIVERSITY	GABLE, R.	62,375	-	-	-	62,375	4,990	-	67,365		TRAD
300499-010	*	OLD DOMINION UNIVERSITY	GABLE, R.	15,018	-	-	-	15,018	1,201	-	16,220		TRAD
300500-010	*	OLD DOMINION UNIVERSITY	GABLE, R.	153,211	1,196	-	-	154,407	12,353	-	166,760		TRAD
300500-020	*	OLD DOMINION UNIVERSITY	GABLE, R.	118,473	80	-	-	118,553	9,484	-	128,037		TRAD
300501-010	*	GEORGE MASON UNIVERSITY	GABLE, R.	3,381	-	-	936	4,317	270	-	4,588		TRAD
300505-010	*	UNIVERSITY OF OREGON	GABLE, R.	58,714	11,593	-	-	70,306	18,280	-	88,586		TRAD
400383-010	*	SASED - MIDWEST PBIS	GABLE, R.	2,829	1,099	-	-	3,928	1,021	-	4,949		TRAD
100559-010	*	U.S. DEPARTMENT OF EDUCATION	GEAR, S.	14,730	703	-	63,606	79,039	1,235	-	80,273		TRAD
100601-010	*	U.S. DEPARTMENT OF EDUCATION	GEAR, S.	61,305	13,556	-	10,815	85,675	19,464	-	105,139		TRAD
100559-010	*	U.S. DEPARTMENT OF EDUCATION	HESTER, P.	14,297	682	-	61,735	76,714	1,198	-	77,912		TRAD
100601-010	*	U.S. DEPARTMENT OF EDUCATION	HESTER, P.	122,609	27,112	-	21,629	171,350	38,928	-	210,278		TRAD
300396-010	*	OLD DOMINION UNIVERSITY	JUDGE, S.	47,145	31,306	-	41,285	119,735	6,276	-	126,011		TRAD

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

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300346-030	*	OLD DOMINION UNIVERSITY	MAYDOSZ, A.	-	-	-	1	1	-	-	1		TRAD
300346-040	*	OLD DOMINION UNIVERSITY	MAYDOSZ, A.	9,599	888	-	29,628	40,115	-	-	40,115		TRAD
300356-030	*	OLD DOMINION UNIVERSITY	MAYDOSZ, A.	6,892	25	-	-	6,917	553	-	7,471		TRAD
300356-040	*	OLD DOMINION UNIVERSITY	MAYDOSZ, A.	12,697	-	-	-	12,697	1,016	-	13,712		TRAD
300457-010	*	GEORGE MASON UNIVERSITY	MAYDOSZ, A.	411	361	-	2,603	3,375	62	-	3,437		TRAD
300458-010	*	GEORGE MASON UNIVERSITY	MAYDOSZ, A.	-	-	-	2,824	2,824	-	-	2,824		TRAD
300499-010	*	OLD DOMINION UNIVERSITY	MAYDOSZ, A.	15,018	-	-	-	15,018	1,201	-	16,220		TRAD
300501-010	*	GEORGE MASON UNIVERSITY	MAYDOSZ, A.	3,381	-	-	936	4,317	270	-	4,588		TRAD
300505-010	*	UNIVERSITY OF OREGON	MAYDOSZ, A.	58,714	11,593	-	-	70,306	18,280	-	88,586		TRAD
300506-010	*	GEORGE MASON UNIVERSITY	MAYDOSZ, A.	1,587	125	-	2,720	4,432	137	-	4,569		TRAD
400383-010	*	SASED - MIDWEST PBIS	MAYDOSZ, A.	2,829	1,099	-	-	3,928	1,021	-	4,949		TRAD
300475-010		OLD DOMINION UNIVERSITY	MURPHY, K.	3,130	540	-	51	3,721	294	-	4,015		TRAD
300333-010	*	OLD DOMINION UNIVERSITY	TONELSON, S.	-	(210)	-	-	(210)	(17)	-	(227)		TRAD
300346-030	*	OLD DOMINION UNIVERSITY	TONELSON, S.	-	-	-	1	1	-	-	1		TRAD
300346-040	*	OLD DOMINION UNIVERSITY	TONELSON, S.	9,599	888	-	29,628	40,115	-	-	40,115		TRAD
300356-020	*	OLD DOMINION UNIVERSITY	TONELSON, S.	-	66	-	-	66	5	-	71		TRAD
300356-030	*	OLD DOMINION UNIVERSITY	TONELSON, S.	7,101	26	-	-	7,127	570	-	7,697		TRAD
300356-040	*	OLD DOMINION UNIVERSITY	TONELSON, S.	20,315	-	-	-	20,315	1,625	-	21,940		TRAD
300393-010	*	OLD DOMINION UNIVERSITY	TONELSON, S.	68,317	17,831	-	-	86,147	6,892	-	93,039		TRAD
300404-010	*	OLD DOMINION UNIVERSITY	TONELSON, S.	8,434	3,141	-	(0)	11,575	926	-	12,501		TRAD
300405-010	*	OLD DOMINION UNIVERSITY	TONELSON, S.	3,046	18,636	-	3,434	25,116	1,734	-	26,849		TRAD
300405-020	*	OLD DOMINION UNIVERSITY	TONELSON, S.	-	79,857	-	-	79,857	6,389	-	86,246		TRAD
300456-010	*	OLD DOMINION UNIVERSITY	TONELSON, S.	197,795	60,132	-	13,206	271,134	20,634	-	291,768		TRAD
300456-020	*	OLD DOMINION UNIVERSITY	TONELSON, S.	139,207	33,100	-	7,801	180,108	13,785	-	193,893		TRAD
300457-010	*	GEORGE MASON UNIVERSITY	TONELSON, S.	411	361	-	2,603	3,375	62	-	3,437		TRAD
300458-010	*	GEORGE MASON UNIVERSITY	TONELSON, S.	-	-	-	2,824	2,824	-	-	2,824		TRAD
300480-010	*	OLD DOMINION UNIVERSITY	TONELSON, S.	100,238	48,354	-	15,338	163,930	11,887	-	175,818		TRAD
300496-010	*	OLD DOMINION UNIVERSITY	TONELSON, S.	63,259	-	-	-	63,259	5,061	-	68,320		TRAD
300497-010		OLD DOMINION UNIVERSITY	TONELSON, S.	-	10,958	-	1,673	12,632	877	-	13,508		TRAD
300500-010	*	OLD DOMINION UNIVERSITY	TONELSON, S.	153,211	1,196	-	-	154,407	12,353	-	166,760		TRAD
300500-020	*	OLD DOMINION UNIVERSITY	TONELSON, S.	118,473	80	-	-	118,553	9,484	-	128,037		TRAD
300505-010	*	UNIVERSITY OF OREGON	TONELSON, S.	60,493	11,944	-	-	72,437	18,834	-	91,271		TRAD
300516-010		OLD DOMINION UNIVERSITY	TONELSON, S.	-	55,508	-	2,601	58,109	4,441	-	62,549		TRAD
300523-010		OLD DOMINION UNIVERSITY	TONELSON, S.	-	8,616	-	-	8,616	689	-	9,305		TRAD
400383-010	*	SASED - MIDWEST PBIS	TONELSON, S.	2,915	1,132	-	-	4,047	1,052	-	5,099		TRAD
300499-010	*	OLD DOMINION UNIVERSITY	TONELSON, S.	15,473	-	-	-	15,473	1,238	-	16,711		TRAD
300501-010	*	GEORGE MASON UNIVERSITY	TONELSON, S.	3,483	-	-	965	4,448	279	-	4,727		TRAD
300506-010	*	GEORGE MASON UNIVERSITY	TONELSON, S.	1,635	129	-	2,802	4,566	141	-	4,707		TRAD
100673-010	*	NATIONAL SCIENCE FOUNDATION	WATSON, S.	8,114	258	-	4,613	12,986	4,605	-	17,590		TRAD
300396-010	*	OLD DOMINION UNIVERSITY	WATSON, S.	48,573	32,254	-	42,536	123,363	6,466	-	129,830		TRAD
				2,580,724	778,806	-	520,864	3,880,395	350,816	-	4,231,210	9.04%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

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Counseling and Human Services													
100689-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	KEMER, G.	9,444	138	-	10,775	20,357	767	-	21,123		TRAD
100689-020	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	KEMER, G.	15,325	-	-	30,137	45,461	1,226	-	46,687		TRAD
100689-020	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	MOE, J.	26,271	-	-	51,663	77,934	2,102	-	80,035		TRAD
100689-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	MOE, J.	16,190	236	-	18,471	34,897	1,314	-	36,211		TRAD
100689-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	REHFUSS, M .	16,865	246	-	19,241	36,351	1,369	-	37,720		TRAD
100689-020	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	REHFUSS, M .	27,366	-	-	53,815	81,181	2,189	-	83,370		TRAD
300349-011	*	EASTERN VIRGINIA MEDICAL SCHOOL	REHFUSS, M .	8,645	-	-	-	8,645	692	-	9,337		TRAD
300349-010		EASTERN VIRGINIA MEDICAL SCHOOL	REHFUSS, M.	38,184	-	-	12,873	51,057	3,055	-	54,112		TRAD
				158,290	619	-	196,974	355,883	12,713	-	368,595	3.57%	
Educational Foundations and Leadership													
300509-010	*	UNIVERSITY OF MASSACHUSETTS (ALL CAMPUSES)	DICKMAN, R.	605	395	-	-	1,000	-	-	1,000		TRAD
300294-020		TEMPLE UNIVERSITY	PEREZ, A.	3,990	-	-	1,578	5,568	2,115	-	7,682		TRAD
300402-010		MICHIGAN STATE UNIVERSITY	PEREZ, A.	59,895	4,997	-	18,654	83,547	35,691	-	119,238		TRAD
100673-010	*	NATIONAL SCIENCE FOUNDATION	PRIBESH, S.	8,114	258	-	4,613	12,986	4,605	-	17,590		TRAD
100709-010	*	NATIONAL SCIENCE FOUNDATION	PRIBESH, S.	5,505	1,876	-	15,944	23,325	4,059	-	27,384		TRAD
200188-040	*	OLD DOMINION UNIVERSITY	SANZO, K.	1,061	1,575	-	3,087	5,723	211	-	5,934		TRAD
400401-010		SPENCER FOUNDATION	WHITE, R.	7,384	-	-	-	7,384	-	-	7,384		TRAD
				86,555	9,101	-	43,877	139,533	46,681	-	186,213	33.45%	
Human Movement Sciences													
400338-010		SOCIETY OF HEALTH AND PHYSICAL EDUCATORS (SHAPE AMI	HAEGELE, J.	-	160	-	-	160	-	-	160		TRAD
400372-010		USA TRIATHLON	HILL, E.	-	574	-	426	1,000	-	-	1,000		TRAD
300454-010		EASTERN VIRGINIA MEDICAL SCHOOL	WILSON, P.	7,316	752	-	-	8,068	-	-	8,068		TRAD
				7,316	1,486	-	426	9,228	-	-	9,228	0.00%	
STEM Education and Professional Studies													
100599-010	*	OFFICE OF NAVAL RESEARCH	ARCAUTE, K.	24,300	4,483	5,525	-	34,307	15,830	-	50,137		TRAD
100702-010	*	NATIONAL SCIENCE FOUNDATION	ARCAUTE, K.	6,654	1,887	-	-	8,541	4,697	-	13,238		TRAD
300395-010		UNIVERSITY OF MARYLAND	DISCALA, J.	12,547	-	-	-	12,547	6,901	-	19,449		TRAD
300361-010	*	TIDEWATER COMMUNITY COLLEGE	KATSIOLOUDIS, P.	10,372	3,487	-	-	13,858	7,622	-	21,481		TRAD
300030-013		UNIVERSITY OF VIRGINIA	TOMOVIC, C.	9,667	192	-	16,152	26,011	-	-	26,011		TRAD
100708-010	*	NATIONAL SCIENCE FOUNDATION	TOMOVIC, C.	2,918	83	-	8,956	11,956	1,650	-	13,607		TRAD
300030-014	*	UNIVERSITY OF VIRGINIA	TOMOVIC, C.	351	245	-	30	625	-	-	625		TRAD
				66,808	10,376	5,525	25,138	107,847	36,701	-	144,548	34.03%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

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Teaching and Learning													
300488-010	*	GEORGE MASON UNIVERSITY	COLWELL, J.	15,269	-	-	-	15,269	3,970	-	19,239		TRAD
300340-010		JAMES MADISON UNIVERSITY	CROMPTON, H.	-	897	-	-	897	233	-	1,131		TRAD
100252-010	*	NATIONAL SCIENCE FOUNDATION	CROMPTON, H.	2,680	4,397	-	3,805	10,883	3,751	-	14,634		TRAD
300518-010	*	OLD DOMINION UNIVERSITY	CROMPTON, H.	10,372	-	-	-	10,372	415	-	10,787		TRAD
300360-020	*	OLD DOMINION UNIVERSITY	DICKINSON, G.	-	-	-	533	533	-	-	533		TRAD
300360-030	*	OLD DOMINION UNIVERSITY	DICKINSON, G.	6,343	4,196	-	49,937	60,476	-	-	60,476		TRAD
300478-010	*	OLD DOMINION UNIVERSITY	DICKINSON, G.	-	2,310	-	18,497	20,807	-	-	20,807		TRAD
100802-010	*	NATIONAL SCIENCE FOUNDATION	ENDERSON, M .	6,703	754	-	-	7,456	4,101	-	11,558		TRAD
100736-010	*	NATIONAL SCIENCE FOUNDATION	GUTIERREZ, K.	5,027	278	-	-	5,304	2,917	-	8,222		TRAD
300488-010	*	GEORGE MASON UNIVERSITY	GUTIERREZ, K.	6,544	-	-	-	6,544	1,701	-	8,245		TRAD
100489-010		NATIONAL SCIENCE FOUNDATION	KIDD, J.	11,667	5,687	-	-	17,354	9,197	-	26,552		TRAD
100736-010	*	NATIONAL SCIENCE FOUNDATION	KIDD, J.	6,702	370	-	-	7,072	3,890	-	10,962		TRAD
400370-010	*	ARTS MIDWEST	LEE, G.	1,745	7,777	-	-	9,523	2,476	-	11,999		TRAD
400322-010		NATIONAL WRITING PROJECT CORPORATION	LEE, L.	-	108	-	-	108	9	-	117		TRAD
400323-010		NATIONAL WRITING PROJECT CORPORATION	LEE, L.	132	2,906	-	10,591	13,628	243	-	13,871		TRAD
300360-030	*	OLD DOMINION UNIVERSITY	SOMMERFELDT, J.	3,806	2,518	-	29,962	36,286	-	-	36,286		TRAD
300453-010		WAYNESBURG UNIVERSITY	SUH, Y.	1,091	1,779	-	804	3,674	-	-	3,674		TRAD
				78,082	33,977	-	114,128	226,187	32,904	-	259,091	14.55%	
EDUCATION TOTAL				**$ 3,142,774**	**$ 974,026**	**$ 5,525**	**$ 1,473,475**	**$ 5,595,800**	**$ 515,706**	**$ -**	**$ 6,111,506**	**9.22%**	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES					
PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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 & TECHNOLOGY													
Dean's Office													
100638-010		NATIONAL SCIENCE FOUNDATION	ADAMS, S.	2,984	5,379	-	-	8,363	4,600	-	12,962		TRAD
100644-010		NATIONAL SCIENCE FOUNDATION	ADAMS, S.	16,146	24,525	-	220,422	261,092	22,369	-	283,461		TRAD
100734-010		NATIONAL SCIENCE FOUNDATION	ADAMS, S.	-	6,199	-	8,500	14,699	1,612	-	16,311		TRAD
300447-010		UNIVERSITY OF VIRGINIA	ADAMS, S.	13,964	-	-	333	14,296	4,468	-	18,765		TRAD
100538-010	*	OFFICE OF NAVAL RESEARCH	DEAN, A.	46,159	5,906	-	-	52,065	28,636	-	80,702		TRAD
100599-010	*	OFFICE OF NAVAL RESEARCH	DEAN, A.	48,599	8,965	11,050	-	68,614	31,660	-	100,274		TRAD
100599-010	*	OFFICE OF NAVAL RESEARCH	DEAN, A.	24,300	4,483	5,525	-	34,307	15,830	-	50,137		TRAD
100702-010	*	NATIONAL SCIENCE FOUNDATION	DEAN, A.	6,654	1,887	-	-	8,541	4,697	-	13,238		TRAD
100708-010	*	NATIONAL SCIENCE FOUNDATION	DEAN, A.	16,195	383	-	35,911	52,489	9,118	-	61,607		TRAD
100720-010	*	OFFICE OF NAVAL RESEARCH	DEAN, A.	24,203	100,166	3,315	-	127,684	68,403	-	196,087		TRAD
100720-012	*	OFFICE OF NAVAL RESEARCH	DEAN, A.	12,975	9,563	-	-	22,538	-	-	22,538		TRAD
100720-013	*	OFFICE OF NAVAL RESEARCH	DEAN, A.	24,042	5,040	-	-	29,081	-	-	29,081		TRAD
100720-014	*	OFFICE OF NAVAL RESEARCH	DEAN, A.	7,528	12,763	-	-	20,290	-	-	20,290		TRAD
100791-010	*	OFFICE OF NAVAL RESEARCH	DEAN, A.	26,937	280	-	2,274	29,491	17,691	-	47,183		TRAD
500343-010	*	CACI, INC.--FEDERAL	DEAN, A.	10,698	-	-	(0)	10,698	5,884	-	16,582		TRAD
100527-026		NASA GODDARD SPACEFLIGHT CENTER	LANDAETA, R.	-	-	-	7,400	7,400	-	-	7,400		TRAD
100708-010	*	NATIONAL SCIENCE FOUNDATION	LANDAETA, R.	8,098	191	-	17,956	26,245	4,559	-	30,804		TRAD
100720-010	*	OFFICE OF NAVAL RESEARCH	LANDAETA, R.	23,254	96,238	3,185	-	122,677	65,720	-	188,397		TRAD
100720-012	*	OFFICE OF NAVAL RESEARCH	LANDAETA, R.	12,466	9,188	-	-	21,654	-	-	21,654		TRAD
100720-013	*	OFFICE OF NAVAL RESEARCH	LANDAETA, R.	23,099	4,842	-	-	27,941	-	-	27,941		TRAD
100720-014	*	OFFICE OF NAVAL RESEARCH	LANDAETA, R.	7,233	12,262	-	-	19,495	-	-	19,495		TRAD
100630-010	*	NATIONAL SCIENCE FOUNDATION	STUART, B.	82	1,987	-	-	2,070	1,138	-	3,208		TRAD
300485-010	*	SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY	STUART, B.	1,021	1,176	-	-	2,197	1,209	-	3,406		TRAD
				356,636	311,421	23,075	292,795	983,927	287,594	-	1,271,521	29.23%	
Civil and Environmental Engineering													
200253-010	*	VA DEPARTMENT OF TRANSPORTATION	CETIN, M.	33,230	299	-	5,592	39,120	8,717	-	47,837		TRAD
200284-010	*	VA TRANSPORTATION RESEARCH COUNCIL	CETIN, M.	8,354	119	-	-	8,473	2,203	-	10,676		TRAD
300258-010	*	UNIVERSITY OF MARYLAND	CETIN, M.	-	1,869	-	-	1,869	991	-	2,860		TRAD
300305-010	*	UNIVERSITY OF VIRGINIA	CETIN, M.	(102)	-	-	-	(102)	(54)	-	(156)		TRAD
300305-012	*	UNIVERSITY OF VIRGINIA	CETIN, M.	569	-	-	-	569	302	-	871		TRAD
300305-013	*	UNIVERSITY OF VIRGINIA	CETIN, M.	22,970	19	-	-	22,989	12,184	-	35,173		TRAD
300305-014		UNIVERSITY OF VIRGINIA	CETIN, M.	15,355	993	-	-	16,348	8,664	-	25,012		TRAD
300305-015		UNIVERSITY OF VIRGINIA	CETIN, M.	4,626	920	-	-	5,546	2,939	-	8,486		TRAD
300305-016		UNIVERSITY OF VIRGINIA	CETIN, M.	26,545	71	-	-	26,615	14,638	-	41,254		TRAD
300305-017	*	UNIVERSITY OF VIRGINIA	CETIN, M.	1,393	1,028	-	-	2,421	1,332	-	3,753		TRAD
300305-018		UNIVERSITY OF VIRGINIA	CETIN, M.	23,992	2,252	-	-	26,245	14,434	-	40,679		TRAD
300305-019	*	UNIVERSITY OF VIRGINIA	CETIN, M.	15,504	1,723	-	-	17,227	9,475	-	26,701		TRAD
300511-010	*	GEORGE MASON UNIVERSITY	CETIN, M.	2,700	825	-	-	3,525	917	-	4,442		TRAD
500382-010	*	LEIDOS	CETIN, M.	2,946	-	-	-	2,946	1,620	-	4,566		TRAD
300305-012	*	UNIVERSITY OF VIRGINIA	CETIN, M.	33	535	-	-	568	301	-	869		TRAD
600197-040		MYONGJI UNIVERSITY	CHAE, Y.	10,955	3,438	-	936	15,329	8,431	-	23,760		TRAD
600221-010		MYONGJI UNIVERSITY	CHAE, Y.	8,581	2,000	-	-	10,581	5,820	-	16,401		TRAD

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300030-014	*	UNIVERSITY OF VIRGINIA	ERTEN-UNAL, M.	701	490	-	60	1,251	-	-	1,251		TRAD
300494-010	*	HAMPTON UNIVERSITY	ERTEN-UNAL, M.	10,753	-	-	-	10,753	5,914	-	16,668		TRAD
100250-010		NATIONAL SCIENCE FOUNDATION	KUMAR, S.	48,061	2,387	-	-	50,449	26,738	-	77,187		TRAD
100250-011		NATIONAL SCIENCE FOUNDATION	KUMAR, S.	7,533	-	-	614	8,147	4,143	-	12,289		TRAD
100250-020		NATIONAL SCIENCE FOUNDATION	KUMAR, S.	-	-	-	6,963	6,963	-	-	6,963		TRAD
100574-010		SANDIA NATIONAL LABORATORIES	KUMAR, S.	23,498	93	-	-	23,592	-	-	23,592		TRAD
100593-010	*	NATIONAL SCIENCE FOUNDATION	KUMAR, S.	4,564	1,723	-	51,583	57,869	3,457	-	61,327		TRAD
100593-020	*	NATIONAL SCIENCE FOUNDATION	KUMAR, S.	-	-	-	3,210	3,210	-	-	3,210		TRAD
100630-010	*	NATIONAL SCIENCE FOUNDATION	KUMAR, S.	4,768	9,771	906	2,899	18,344	7,997	-	26,341		TRAD
100630-011		NATIONAL SCIENCE FOUNDATION	KUMAR, S.	7,692	6,477	-	2,818	16,987	7,793	-	24,781		TRAD
100630-020		NATIONAL SCIENCE FOUNDATION	KUMAR, S.	-	-	-	1,540	1,540	-	-	1,540		TRAD
100696-010		U.S. ENVIRONMENTAL PROTECTION AGENCY	KUMAR, S.	-	2,110	3,513	-	5,623	1,160	-	6,783		TRAD
300485-010	*	SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY	KUMAR, S.	4,085	4,705	-	-	8,789	4,834	-	13,623		TRAD
500298-010	*	FIBERIGHT, LLC	KUMAR, S.	-	-	-	-	-	(0)	-	(0)		TRAD
500402-010		ZIVO BIOSCIENCE	KUMAR, S.	8,913	483	-	-	9,396	5,168	-	14,563		TRAD
100544-010		NATIONAL SCIENCE FOUNDATION	MA, G.	-	2,825	-	-	2,825	1,497	-	4,323		TRAD
300482-010		MICHIGAN TECH UNIVERSITY	MA, G.	3,891	-	-	-	3,891	2,140	-	6,031		TRAD
500302-010		A-ZONE ENVIRONMENTAL SERVICES LLC	MEKKAWY, M.	-	-	-	2,353	2,353	1,294	-	3,647		TRAD
300305-013	*	UNIVERSITY OF VIRGINIA	PALETI, R.	7,073	-	-	-	7,073	3,749	-	10,822		TRAD
100580-010		NATIONAL SCIENCE FOUNDATION	STUART, B.	-	-	-	(4,643)	(4,643)	-	-	(4,643)		TRAD
100630-010	*	NATIONAL SCIENCE FOUNDATION	STUART, B.	2,302	2,899	453	1,449	7,103	2,860	-	9,963		TRAD
500298-010	*	FIBERIGHT, LLC	STUART, B.	-	-	-	-	-	(0)	-	(0)		TRAD
300435-010		VA INSTITUTE OF MARINE SCIENCE (VIMS)	TAHVILDARI, N.	31,938	4,711	-	1,646	38,296	-	-	38,296		TRAD
300305-017	*	UNIVERSITY OF VIRGINIA	TAHVILDARI, N.	4,939	3,645	-	-	8,584	4,721	-	13,305		TRAD
100653-010		NATIONAL SCIENCE FOUNDATION	WANG, X.	17,944	7,675	-	69,295	94,914	6,661	-	101,575		TRAD
100699-010		STRATEGIC ENVIRONMENTAL RESEARCH & DEVELOPMENT PI	WANG, X.	75,864	5,382	-	12,504	93,751	52,810	-	146,561		TRAD
300448-010		VA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	WANG, X.	9,813	9,257	-	-	19,070	4,958	-	24,029		TRAD
300486-010		VA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	WANG, X.	913	3,172	-	-	4,085	1,062	-	5,147		TRAD
				452,896	83,898	4,872	158,818	700,483	241,873	-	942,356	34.53%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

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FOR FISCAL YEAR 2019

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PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
Electrical and Computer Engineering													
300311-010		ROCHESTER INSTITUE OF TECHNOLOGY	BAILEY, C.	6,199	-	-	-	6,199	3,285	-	9,484		TRAD
300431-010		UNIVERSITY OF VIRGINIA	BELFORE, L.	-	-	-	3,022	3,022	-	-	3,022		TRAD
500219-001	*	WR SYSTEMS, LTD.	BELFORE, L.	4,392	100	-	0	4,493	2,920	-	7,413		TRAD
500219-002	*	WR SYSTEMS, LTD.	BELFORE, L.	17,568	400	-	0	17,969	11,680	-	29,648		TRAD
500219-003	*	WR SYSTEMS, LTD.	BELFORE, L.	12,955	400	-	-	13,355	8,681	-	22,035		TRAD
500219-004	*	WR SYSTEMS, LTD.	BELFORE, L.	3,238	100	-	-	3,338	2,170	-	5,508		TRAD
100256-010	*	NATIONAL SCIENCE FOUNDATION	CHEN, C.	-	285	-	11,080	11,365	151	-	11,515		TRAD
100256-010	*	NATIONAL SCIENCE FOUNDATION	DHALI, S.	-	427	-	16,620	17,047	226	-	17,273		TRAD
400376-010	*	COMMONWEALTH CENTER FOR ADVANCED MANUFACTURING	DHALI, S.	2,624	72	-	-	2,696	1,483	-	4,178		TRAD
400271-003		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	GONZALEZ, O.	1,387	-	-	-	1,387	361	-	1,748		TRAD
400345-010		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	GONZALEZ, O.	48,841	-	-	8,381	57,222	12,699	-	69,920		TRAD
100737-010		NATIONAL SCIENCE FOUNDATION	GRAY, W.	19,313	2,521	-	-	21,835	12,009	-	33,844		TRAD
100594-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	IFTEKHARUDDIN, K.	193,835	18,228	-	61,596	273,659	116,635	-	390,294		TRAD
100594-020		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	IFTEKHARUDDIN, K.	-	28,645	-	-	28,645	15,755	-	44,399		TRAD
100648-010	*	NATIONAL SCIENCE FOUNDATION	IFTEKHARUDDIN, K.	1,893	1,957	-	15,077	18,927	2,117	-	21,044		TRAD
100659-010		ARMY CONTRACTING COMMAND	IFTEKHARUDDIN, K.	23,875	600	-	63,394	87,869	13,461	-	101,330		TRAD
100720-011		OFFICE OF NAVAL RESEARCH	IFTEKHARUDDIN, K.	39,222	5,782	6,500	-	51,504	-	-	51,504		TRAD
300305-012	*	UNIVERSITY OF VIRGINIA	IFTEKHARUDDIN, K.	904	802	-	-	1,706	904	-	2,610		TRAD
300305-019	*	UNIVERSITY OF VIRGINIA	IFTEKHARUDDIN, K.	12,685	1,410	-	-	14,095	7,752	-	21,846		TRAD
400240-006		COMMONWEALTH CENTER FOR ADVANCED MANUFACTURING	IFTEKHARUDDIN, K.	10,627	-	-	0	10,627	2,763	-	13,390		TRAD
100613-010		NATIONAL SCIENCE FOUNDATION	KRUSIENSKI, D.	21,720	6,785	-	2,400	30,905	15,677	-	46,582		TRAD
100648-010	*	NATIONAL SCIENCE FOUNDATION	LI, J.	1,893	1,957	-	15,077	18,927	2,117	-	21,044		TRAD
100656-010	*	NASA GODDARD SPACEFLIGHT CENTER	LI, J.	31,424	4,224	-	519	36,167	19,606	-	55,774		TRAD
500263-010		INTELLIGENT AUTOMATION, INC.	LI, J.	1,082	-	-	239	1,321	700	-	2,020		TRAD
500312-030		APPLIED RESEARCH LLC	LI, J.	23,925	3,885	-	-	27,810	15,295	-	43,105		TRAD

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

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100256-010	*	NATIONAL SCIENCE FOUNDATION	MARSILLAC, S.	-	356	-	13,850	14,206	189	-	14,394		TRAD
300344-010		UNIVERSITY OF TOLEDO	MARSILLAC, S.	-	-	-	15	15	8	-	23		TRAD
300428-010		COLORADO SCHOOL OF MINES	MARSILLAC, S.	27,830	21,285	3,969	-	53,084	27,013	-	80,097		TRAD
300436-010		COLORADO SCHOOL OF MINES	MARSILLAC, S.	16,231	1,276	-	-	17,507	9,629	-	27,136		TRAD
100595-010	*	NASA GODDARD SPACEFLIGHT CENTER	POPESCU, D.	-	32	-	431	463	8	-	472		TRAD
100595-011	*	NASA GODDARD SPACEFLIGHT CENTER	POPESCU, D.	-	35	-	-	35	-	-	35		TRAD
500219-001	*	WR SYSTEMS, LTD.	POPESCU, D.	4,392	100	-	0	4,493	2,920	-	7,413		TRAD
500219-002	*	WR SYSTEMS, LTD.	POPESCU, D.	17,568	400	-	0	17,969	11,680	-	29,648		TRAD
500219-003	*	WR SYSTEMS, LTD.	POPESCU, D.	12,955	400	-	-	13,355	8,681	-	22,035		TRAD
500219-004	*	WR SYSTEMS, LTD.	POPESCU, D.	3,238	100	-	-	3,338	2,170	-	5,508		TRAD
100241-010		NATIONAL SCIENCE FOUNDATION	VAHALA, L.	3,709	2,688	-	-	6,397	3,390	-	9,787		TRAD
400271-001		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	VAHALA, L.	3,484	-	-	-	3,484	906	-	4,390		TRAD
100538-010	*	OFFICE OF NAVAL RESEARCH	VAHALA, L.	8,393	1,074	-	-	9,466	5,207	-	14,673		TRAD
100612-010		NATIONAL SCIENCE FOUNDATION	WU, H.	41,206	-	-	5,990	47,196	22,663	-	69,860		TRAD
100706-010	*	NATIONAL SECURITY AGENCY	WU, H.	3,959	2,803	-	-	6,762	3,719	-	10,482		TRAD
100709-010	*	NATIONAL SCIENCE FOUNDATION	WU, H.	1,754	-	-	7,999	9,753	965	-	10,717		TRAD
100723-010	*	NATIONAL SCIENCE FOUNDATION	WU, H.	1,286	-	-	-	1,286	707	-	1,993		TRAD
100745-010	*	NATIONAL SCIENCE FOUNDATION	WU, H.	462	300	-	-	762	419	-	1,181		TRAD
100791-010	*	OFFICE OF NAVAL RESEARCH	WU, H.	4,438	-	-	1,460	5,898	2,885	-	8,783		TRAD
100253-010		NATIONAL SCIENCE FOUNDATION	XIN, C.	2,540	-	-	-	2,540	1,346	-	3,887		TRAD
100648-010	*	NATIONAL SCIENCE FOUNDATION	XIN, C.	1,893	1,957	-	15,077	18,927	2,117	-	21,044		TRAD
100680-010		NATIONAL SCIENCE FOUNDATION	XIN, C.	5,001	-	-	-	5,001	2,751	-	7,752		TRAD
100706-010	*	NATIONAL SECURITY AGENCY	XIN, C.	5,939	4,205	-	-	10,144	5,579	-	15,722		TRAD
100709-010	*	NATIONAL SCIENCE FOUNDATION	XIN, C.	1,754	-	-	7,999	9,753	965	-	10,717		TRAD
100745-010	*	NATIONAL SCIENCE FOUNDATION	XIN, C.	462	300	-	-	762	419	-	1,181		TRAD
100791-010	*	OFFICE OF NAVAL RESEARCH	XIN, C.	4,307	-	-	1,417	5,725	2,800	-	8,524		TRAD
300374-010		SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY	ZHANG, Y.	-	(696)	-	-	(696)	(383)	-	(1,078)		TRAD
				652,398	115,195	10,469	251,647	1,029,710	387,197	-	1,416,907	37.60%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES				
PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
Electrical and Computer Engineering - Applied Research Center												
300311-010	ROCHESTER INSTITUE OF TECHNOLOGY	BAILEY, C.	6,199	-	-	-	6,199	3,285	-	9,484		ARC
300409-010	* UNIVERSITY OF VIRGINIA	BAUMGART, H.	-	(34)	-	-	(34)	-	-	(34)		ARC
500121-010	MICROXACT, INC.	BAUMGART, H.	-	-	-	(15,115)	(15,115)	(3,930)	-	(19,045)		ARC
100567-020	LANGLEY RESEARCH CENTER	ELSAYED-ALI, H.	18,684	245	-	-	18,929	4,921	-	23,850		ARC
100674-010	NATIONAL SCIENCE FOUNDATION	ELSAYED-ALI, H.	48,622	2,340	2,701	584	54,247	28,029	-	82,277		ARC
200272-010	* CENTER FOR INNOVATIVE TECHNOLOGY	ELSAYED-ALI, H.	25,900	11,664	-	-	37,564	11,269	-	48,833		ARC
300409-010	* UNIVERSITY OF VIRGINIA	ELSAYED-ALI, H.	-	(80)	-	-	(80)	-	-	(80)		ARC
300430-010	UNIVERSITY OF VIRGINIA	ELSAYED-ALI, H.	4,040	2,672	-	135	6,847	-	-	6,847		ARC
300467-010	UNIVERSITY OF VIRGINIA	ELSAYED-ALI, H.	7,866	409	-	-	8,275	-	-	8,275		ARC
400125-020	EMBODY	ELSAYED-ALI, H.	-	525	-	1,076	1,601	880	-	2,481		ARC
400346-011	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	ELSAYED-ALI, H.	27,907	2,020	-	-	29,927	-	-	29,927		ARC
400352-010	EMBODY	ELSAYED-ALI, H.	-	120	-	124	244	134	-	378		ARC
500288-010	FACE CONSTRUCTION TECHNOLOGIES	ELSAYED-ALI, H.	-	-	-	244	244	134	-	379		ARC
500322-010	AONA CORP (ACCELERATOR DRIVEN NEUTRON APPLICATION	ELSAYED-ALI, H.	9,539	110	-	351	10,000	-	-	10,000		ARC
500345-010	MTEQ MANUFACTURING SERVICES	ELSAYED-ALI, H.	-	908	-	1,513	2,421	-	-	2,421		ARC
500361-010	BLACK LABORATORIES, LLC	ELSAYED-ALI, H.	-	1,290	-	-	1,290	710	-	2,000		ARC
500369-010	EVERGREEN TECHNOLOGIES, LLC	ELSAYED-ALI, H.	-	1,580	-	-	1,580	411	-	1,991		ARC
500374-010	II-VI INFARED, INC.	ELSAYED-ALI, H.	5,457	-	-	-	5,457	1,419	-	6,876		ARC
500378-010	FACE CONSTRUCTION TECHNOLOGIES	ELSAYED-ALI, H.	15,444	3,545	-	-	18,989	10,444	-	29,433		ARC
500380-010	MTEQ MANUFACTURING SERVICES	ELSAYED-ALI, H.	-	17,600	-	-	17,600	-	-	17,600		ARC
500385-010	DR. DANIEL P. HENKEL	ELSAYED-ALI, H.	-	350	-	-	350	193	-	543		ARC
100256-010	* NATIONAL SCIENCE FOUNDATION	MARSILLAC, S.	-	356	-	13,850	14,206	189	-	14,394		ARC
300344-010	UNIVERSITY OF TOLEDO	MARSILLAC, S.	-	-	-	15	15	8	-	23		ARC
300428-010	COLORADO SCHOOL OF MINES	MARSILLAC, S.	27,830	21,285	3,969	-	53,084	27,013	-	80,097		ARC
300436-010	COLORADO SCHOOL OF MINES	MARSILLAC, S.	16,231	1,276	-	-	17,507	9,629	-	27,136		ARC
100256-010	* NATIONAL SCIENCE FOUNDATION	NAMKOONG, G.	-	1,138	-	44,320	45,458	603	-	46,062		ARC
100527-028	NASA GODDARD SPACEFLIGHT CENTER	NAMKOONG, G.	2,385	915	-	-	3,300	-	-	3,300		ARC
300392-010	NORFOLK STATE UNIVERSITY	NAMKOONG, G.	6,341	-	-	-	6,341	3,487	-	9,828		ARC
300465-010	UNIVERSITY OF VIRGINIA	NAMKOONG, G.	5,716	5,196	-	717	11,629	-	-	11,629		ARC
600211-010	SAMIL TECH COMPANY, LTD	NAMKOONG, G.	9,508	36	-	-	9,544	-	-	9,544		ARC
			237,667	75,468	6,670	47,815	367,620	98,829	-	466,449	26.88%	
Electrical and Computer Engineering - Center for Bioelectrics												
100517-010	* U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	BULYSHEVA, A.	14,698	8,305	-	-	23,004	12,192	-	35,195		CBE
300474-010	OLD DOMINION UNIVERSITY	BULYSHEVA, A.	14,037	29,715	26,314	473,750	543,817	13,126	-	556,943		CBE
300487-010	* OLD DOMINION UNIVERSITY	BULYSHEVA, A.	20,028	6,047	-	3,750	29,825	7,823	-	37,648		CBE
500381-010	* LIFENET	BULYSHEVA, A.	15,871	9,242	3,223	3,750	32,085	7,534	-	39,619		CBE
100661-010	AIR FORCE RESEARCH LABORATORY	JIANG, C.	80,210	11,868	-	-	92,078	50,643	-	142,721		CBE
500328-010	TRANSIENT PLASMA SYSTEMS, INC.	JIANG, C.	-	311	-	7,071	7,382	4,232	-	11,614		CBE
100732-010	* U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	JIANG, C.	11,274	6,112	-	-	17,386	9,562	-	26,949		CBE
100740-010	* U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	JIANG, C.	45,969	4,843	-	-	50,812	27,947	-	78,758		CBE
600186-010	* UNIVERSITY OF SOUTHAMPTON	KONG, M.	66,576	14,763	3,790	-	85,129	43,109	-	128,238		CBE
100807-010	NATIONAL SCIENCE FOUNDATION	SLAUGHTER, G.	15,404	-	-	-	15,404	8,472	-	23,877		CBE
100809-010	NATIONAL SCIENCE FOUNDATION	SLAUGHTER, G.	55,798	2,040	-	-	57,837	31,810	-	89,648		CBE
300345-011	OLD DOMINION UNIVERSITY	XIAO, S.	62,441	11,702	-	-	74,143	40,779	-	114,922		CBE
500226-016	PULSE BIOSCIENCES (ELECTROBLATE)	XIAO, S.	10,649	9,655	-	-	20,304	11,167	-	31,471		CBE
100548-010	* U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	XIAO, S.	3,287	368	-	-	3,655	2,010	-	5,665		CBE
300345-013	* OLD DOMINION UNIVERSITY	XIAO, S.	2,363	489	-	-	2,852	1,568	-	4,420		CBE
300479-010	* VIRGINIA COMMONWEALTH UNIVERSITY	XIAO, S.	2,098	1,410	-	-	3,508	-	-	3,508		CBE
500226-011	* PULSE BIOSCIENCES (ELECTROBLATE)	XIAO, S.	18,845	13,100	-	-	31,945	17,570	-	49,515		CBE
100548-010	* U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	ZEMLIN, C.	26,294	2,945	-	-	29,239	16,081	-	45,320		CBE
400333-010	AMERICAN HEART ASSOCIATION	ZEMLIN, C.	34,071	2,332	-	-	36,403	-	-	36,403		CBE
500359-010	ATRICURE, INC	ZEMLIN, C.	-	27,754	-	-	27,754	15,265	-	43,019		CBE
300487-010	* OLD DOMINION UNIVERSITY	ZEMLIN, C.	20,028	6,047	-	3,750	29,825	7,823	-	37,648		CBE
500226-007	* PULSE BIOSCIENCES (ELECTROBLATE)	ZEMLIN, C.	17,749	110	-	-	17,859	9,823	-	27,682		CBE
500381-010	* LIFENET	ZEMLIN, C.	15,871	9,242	3,223	3,750	32,085	7,534	-	39,619		CBE
			553,562	178,401	36,549	495,821	1,264,333	346,070	-	1,610,403	27.37%	

SCHEDULE 4

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Electrical and Computer Engineering - Center for Cybersecurity													
100648-010	*	NATIONAL SCIENCE FOUNDATION	IFTEKHARUDDIN, K.	663	4,044	-	7,052	11,759	2,589	-	14,348		CYBER
100746-010	*	NATIONAL SCIENCE FOUNDATION	IFTEKHARUDDIN, K.	-	-	300,740	-	300,740	-	-	300,740		CYBER
100648-010	*	NATIONAL SCIENCE FOUNDATION	LI, J.	663	4,044	-	7,052	11,759	2,589	-	14,348		CYBER
100612-010		NATIONAL SCIENCE FOUNDATION	WU, H.	7,487	6,891	-	-	14,378	7,908	-	22,286		CYBER
100706-010	*	NATIONAL SECURITY AGENCY	WU, H.	-	112	-	-	112	61	-	173		CYBER
100723-010	*	NATIONAL SCIENCE FOUNDATION	WU, H.	12,086	-	-	1,237	13,323	6,647	-	19,970		CYBER
100745-010	*	NATIONAL SCIENCE FOUNDATION	WU, H.	3,789	-	-	2,236	6,025	2,084	-	8,109		CYBER
100746-010	*	NATIONAL SCIENCE FOUNDATION	WU, H.	-	-	300,740	-	300,740	-	-	300,740		CYBER
100791-010	*	OFFICE OF NAVAL RESEARCH	WU, H.	23,316	289	-	883	24,487	15,343	-	39,830		CYBER
100799-010	*	NATIONAL SECURITY AGENCY	WU, H.	1,818	-	-	-	1,818	1,000	-	2,818		CYBER
100648-010	*	NATIONAL SCIENCE FOUNDATION	XIN, C.	663	4,044	-	7,052	11,759	2,589	-	14,348		CYBER
100680-010		NATIONAL SCIENCE FOUNDATION	XIN, C.	4,863	299	-	-	5,162	2,839	-	8,001		CYBER
100680-020		NATIONAL SCIENCE FOUNDATION	XIN, C.	-	-	-	10,000	10,000	-	-	10,000		CYBER
100706-010	*	NATIONAL SECURITY AGENCY	XIN, C.	-	168	-	-	168	92	-	260		CYBER
100709-010	*	NATIONAL SCIENCE FOUNDATION	XIN, C.	7,502	3,752	-	15,890	27,144	6,190	-	33,334		CYBER
100745-010	*	NATIONAL SCIENCE FOUNDATION	XIN, C.	3,789	-	-	2,236	6,025	2,084	-	8,109		CYBER
100791-010	*	OFFICE OF NAVAL RESEARCH	XIN, C.	22,630	280	-	857	23,767	14,892	-	38,658		CYBER
100799-010	*	NATIONAL SECURITY AGENCY	XIN, C.	1,818	-	-	-	1,818	1,000	-	2,818		CYBER
				91,088	23,921	601,480	54,495	770,985	67,906	-	838,892	8.81%	
Mechanical & Aerospace Engineering													
100725-011		OFFICE OF NAVAL RESEARCH	ALBERTS, T.	43,416	230	-	-	43,646	11,348	-	54,994		TRAD
400203-001		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	ASH, R.	579	-	-	-	579	150	-	729		TRAD
100595-010	*	NASA GODDARD SPACEFLIGHT CENTER	ASH, R.	-	32	-	431	463	8	-	472		TRAD
100595-011	*	NASA GODDARD SPACEFLIGHT CENTER	ASH, R.	-	35	-	-	35	-	-	35		TRAD
100628-010		AMES RESEARCH LABS	BAWAB, S.	5,406	-	-	20,127	25,533	-	-	25,533		TRAD
400271-007		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	BAWAB, S.	-	-	-	6,222	6,222	-	-	6,222		TRAD
400271-009		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	BAWAB, S.	6,959	-	-	-	6,959	-	-	6,959		TRAD
400365-010		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	BAWAB, S.	-	-	-	(6,222)	(6,222)	-	-	(6,222)		TRAD
100588-010	*	OFFICE OF NAVAL RESEARCH	BAWAB, S.	20,622	267	-	3,618	24,507	13,578	-	38,084		TRAD
100599-010	*	OFFICE OF NAVAL RESEARCH	BAWAB, S.	24,300	4,483	5,525	-	34,307	15,830	-	50,137		TRAD
100738-010	*	NATIONAL SCIENCE FOUNDATION	BAWAB, S.	3,177	592	-	7,506	11,275	2,073	-	13,348		TRAD
400311-010	*	CHILDREN'S HEATH FOUNDATION, INC.	BAWAB, S.	12,573	5,464	-	-	18,037	-	-	18,037		TRAD
400271-008		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	BAYSAL, O.	29,864	1,025	-	3,389	34,278	9,371	-	43,648		TRAD
400408-010		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	BAYSAL, O.	2,565	-	-	-	2,565	-	-	2,565		TRAD
400271-005		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	BRITCHER, C.	39,928	4,217	-	7,219	51,364	11,478	-	62,842		TRAD
400348-010		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	BRITCHER, C.	86,657	-	-	-	86,657	22,531	-	109,187		TRAD
100599-010	*	OFFICE OF NAVAL RESEARCH	GHOSH, D.	16,293	114	-	-	16,407	9,024	-	25,430		TRAD
100599-010	*	OFFICE OF NAVAL RESEARCH	GHOSH, D.	8,007	4,368	5,525	-	17,900	6,806	-	24,707		TRAD
100748-010		NATIONAL SCIENCE FOUNDATION	GHOSH, D.	10,021	4,498	-	5,319	19,838	7,985	-	27,823		TRAD
100738-010	*	NATIONAL SCIENCE FOUNDATION	GHOSH, D.	5,296	987	-	12,510	18,792	3,455	-	22,247		TRAD
100458-010	*	NATIONAL SCIENCE FOUNDATION	HAO, J.	-	-	-	-	-	(0)	-	(0)		TRAD
400391-010	*	CHILDREN'S HOSPITAL OF THE KING'S DAUGHTERS	HAO, Z.	3,328	-	-	-	3,328	-	-	3,328		TRAD
100256-010	*	NATIONAL SCIENCE FOUNDATION	HOU, G.	-	285	-	11,080	11,365	151	-	11,515		TRAD
100588-010	*	OFFICE OF NAVAL RESEARCH	HOU, G.	20,622	267	-	3,618	24,507	13,578	-	38,084		TRAD
100738-010	*	NATIONAL SCIENCE FOUNDATION	HOU, G.	3,177	592	-	7,506	11,275	2,073	-	13,348		TRAD
100702-010	*	NATIONAL SCIENCE FOUNDATION	KAIPA, K.	6,654	1,887	-	-	8,541	4,697	-	13,238		TRAD
100736-010	*	NATIONAL SCIENCE FOUNDATION	KAIPA, K.	3,351	185	-	-	3,536	1,945	-	5,481		TRAD

SCHEDULE 4

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100527-024		NASA GODDARD SPACEFLIGHT CENTER	KRAVCHENKO, O.	-	3,543	-	-	3,543	-	-	3,543		TRAD
100738-010	*	NATIONAL SCIENCE FOUNDATION	KRAVCHENKO, O.	5,296	987	-	12,510	18,792	3,455	-	22,247		TRAD
400271-006		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	KRAVCHENKO, O.	10,820	700	-	5,052	16,572	182	-	16,754		TRAD
400373-010		JEFFRESS RESEARCH GRANTS PROGRAM	KRAVCHENKO, O.	33,349	18,174	-	-	51,523	-	-	51,523		TRAD
400203-004		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	LANDMAN, D.	17,264	-	-	-	17,264	9,495	-	26,759		TRAD
100560-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	MARUTHAMUTHU, V.	30,012	35,200	-	-	65,212	34,563	-	99,775		TRAD
100549-010		AIR FORCE RESEARCH LABORATORY	NEWMAN, B.	-	-	-	-	-	(7,169)	-	(7,169)		TRAD
100458-010	*	NATIONAL SCIENCE FOUNDATION	QUIAN, S.	-	-	-	-	-	(0)	-	(0)		TRAD
100736-010	*	NATIONAL SCIENCE FOUNDATION	RINGLEB, S.	8,378	463	-	-	8,840	4,862	-	13,703		TRAD
400311-010	*	CHILDREN'S HEATH FOUNDATION, INC.	RINGLEB, S.	14,508	6,304	-	-	20,812	-	-	20,812		TRAD
100532-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	WRIGGERS, W.	48,611	3,754	-	-	52,365	28,801	-	81,165		TRAD
100593-010	*	NATIONAL SCIENCE FOUNDATION	ZHANG, X.	4,564	1,723	-	51,583	57,869	3,457	-	61,327		TRAD
100593-020	*	NATIONAL SCIENCE FOUNDATION	ZHANG, X.	-	-	-	12,840	12,840	-	-	12,840		TRAD
				525,595	100,372	11,050	164,307	801,324	213,728	-	1,015,053	26.67%	
Engineering Technology													
100630-010	*	NATIONAL SCIENCE FOUNDATION	AYALA, O.	795	1,629	151	483	3,057	1,333	-	4,390		TRAD
100736-010	*	NATIONAL SCIENCE FOUNDATION	AYALA, O.	3,351	185	-	-	3,536	1,945	-	5,481		TRAD
400335-010		ACS PETROLEUM RESEARCH FOUNDATION	AYALA, O.	11,721	-	-	-	11,721	-	-	11,721		TRAD
400376-010		COMMONWEALTH CENTER FOR ADVANCED MANUFACTURING	CHITIKESHI, S.	37,856	265	-	-	38,121	20,967	-	59,088		TRAD
200246-010	*	CITY OF VIRGINIA BEACH	CONSIDINE, C.	1,626	-	-	-	1,626	423	-	2,049		TRAD
200246-020	*	CITY OF VIRGINIA BEACH	CONSIDINE, C.	4,613	92	-	-	4,705	1,223	-	5,928		TRAD
300365-010	*	OLD DOMINION UNIVERSITY	CONSIDINE, C.	8,355	-	-	-	8,355	1,253	-	9,609		TRAD
300492-010	*	OLD DOMINION UNIVERSITY	CONSIDINE, C.	8,478	1,122	-	-	9,599	-	-	9,599		TRAD
300494-010	*	HAMPTON UNIVERSITY	CONSIDINE, C.	4,609	-	-	-	4,609	2,535	-	7,143		TRAD
400277-010	*	BLUE MOON FUND	CONSIDINE, C.	11,455	17,172	-	95	28,721	4,308	-	33,030		TRAD
100599-010	*	OFFICE OF NAVAL RESEARCH	JOVANOVIC, V.	24,300	4,483	5,525	-	34,307	15,830	-	50,137		TRAD
100702-010	*	NATIONAL SCIENCE FOUNDATION	JOVANOVIC, V.	6,654	1,887	-	-	8,541	4,697	-	13,238		TRAD
100708-010	*	NATIONAL SCIENCE FOUNDATION	JOVANOVIC, V.	10,797	255	-	23,941	34,993	6,079	-	41,071		TRAD
300030-014	*	UNIVERSITY OF VIRGINIA	JOVANOVIC, V.	1,052	735	-	90	1,876	-	-	1,876		TRAD
300361-010	*	TIDEWATER COMMUNITY COLLEGE	JOVANOVIC, V.	12,965	4,358	-	-	17,323	9,528	-	26,851		TRAD
500384-010		BEM CONTROLS, LLC	KUZLU, M.	33,162	1,601	-	-	34,762	19,119	-	53,882		TRAD
300365-010	*	OLD DOMINION UNIVERSITY	LESTER, J.	1,671	-	-	-	1,671	251	-	1,922		TRAD
100702-010	*	NATIONAL SCIENCE FOUNDATION	POPESCU, O.	6,654	1,887	-	-	8,541	4,697	-	13,238		TRAD
200009-021		STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	POPESCU, O.	-	1,244	-	-	1,244	-	-	1,244		TRAD
400327-010		AMERICAN IRON AND STEEL INSTITUTION	SEEK, M.	-	-	-	1,096	1,096	-	-	1,096		TRAD
300365-010	*	OLD DOMINION UNIVERSITY	SEEK, M.	6,684	-	-	-	6,684	1,003	-	7,687		TRAD
100599-010	*	OFFICE OF NAVAL RESEARCH	TOMOVIC, M.	24,300	4,483	5,525	-	34,307	15,830	-	50,137		TRAD
100708-010	*	NATIONAL SCIENCE FOUNDATION	TOMOVIC, M.	5,180	109	-	9,000	14,288	2,909	-	17,197		TRAD
300361-010	*	TIDEWATER COMMUNITY COLLEGE	TOMOVIC, M.	2,593	872	-	-	3,465	1,906	-	5,370		TRAD
				228,869	42,376	11,201	34,705	317,150	115,835	-	432,985	36.52%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES					
PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
Engineering Management													
100531-001	*	NAVAL SEA SYSTEMS COMMAND	COLLINS, A.	(1)	-	-	-	(1)	(1)	-	(1)		TRAD
100790-010	*	NAVAL SEA SYSTEMS COMMAND	COLLINS, A.	73,164	10,134	-	6,122	89,420	54,143	-	143,564		TRAD
100790-010	*	NAVAL SEA SYSTEMS COMMAND	COLLINS, A.	22,708	408	-	-	23,116	15,025	-	38,141		TRAD
100800-010	*	NAVAL AIR WARFARE CENTER TSD	COLLINS, A.	4,699	677	-	-	5,376	3,495	-	8,871		TRAD
200244-011	*	VA PORT AUTHORITY	COLLINS, A.	-	-	-	-	-	0	-	0		TRAD
100790-010	*	NAVAL SEA SYSTEMS COMMAND	COTTER, S.	12,194	1,689	-	1,020	14,903	9,024	-	23,927		TRAD
500343-010	*	CACI, INC.--FEDERAL	COTTER, S.	10,698	-	-	(0)	10,698	5,884	-	16,582		TRAD
500343-010	*	CACI, INC.--FEDERAL	DANIELS, C.	10,698	-	-	(0)	10,698	5,884	-	16,582		TRAD
100654-010	*	NATIONAL SECURITY AGENCY	GHEORGE, A.	-	553	-	-	553	304	-	857		TRAD
100691-010	*	NATIONAL SECURITY AGENCY	GHEORGE, A.	17,873	3,857	-	-	21,730	11,952	-	33,682		TRAD
300515-010		OLD DOMINION UNIVERSITY	GHEORGHE, A.	-	32,985	-	-	32,985	-	-	32,985		TRAD
500260-020		CONTRACTING RESOURCES GROUP	HANDLEY, H.	-	-	-	89	89	47	-	137		TRAD
500260-030		CONTRACTING RESOURCES GROUP	HANDLEY, H.	11,634	-	-	47	11,681	6,424	-	18,105		TRAD
500348-010		NON-DISCLOSED SPONSORS	HANDLEY, H.	8,345	-	-	-	8,345	4,590	-	12,934		TRAD
500389-010		ALION SCIENCE AND TECHNOLOGY CORPORATION	HANDLEY, H.	12,002	-	-	-	12,002	7,801	-	19,804		TRAD
500404-010		VOLVO TECHNOLOGY OF AMERICA, INC.	HANDLEY, H.	8,141	600	-	-	8,741	4,808	-	13,549		TRAD
400192-000		PRIVATE SPONSOR	KEATING, C.	-	1,087	-	-	1,087	-	-	1,087		TRAD
500393-010		GENERAL DYNAMICS	KEATING, C.	7,338	962	-	170	8,469	4,658	-	13,127		TRAD
100527-026		NASA GODDARD SPACEFLIGHT CENTER	LANDAETA, R.	-	-	-	2,600	2,600	-	-	2,600		TRAD
100736-010	*	NATIONAL SCIENCE FOUNDATION	PAZOS-LAGO, M.	6,702	370	-	-	7,072	3,890	-	10,962		TRAD
500297-020		VIRGINIA NATURAL GAS	PAZOS-LAGO, P.	-	-	-	0	0	0	-	0		TRAD
500377-010		VIRGINIA NATURAL GAS	PAZOS-LAGO, P.	10,972	-	-	-	10,972	2,962	-	13,934		TRAD
100741-010		OFFICE OF NAVAL RESEARCH	PINTO, C.	29,104	176	-	-	29,280	16,104	-	45,385		TRAD
500304-030		FM GLOBAL	PINTO, C.	13,788	-	-	101	13,889	3,611	-	17,500		TRAD
100654-010	*	NATIONAL SECURITY AGENCY	PINTO, C.	-	553	-	-	553	304	-	857		TRAD
100741-010	*	OFFICE OF NAVAL RESEARCH	PINTO, C.	15,834	-	-	-	15,834	8,709	-	24,543		TRAD
600195-010		QATAR UNIVERSITY	RABADI, G.	-	3,050	-	(0)	3,050	610	-	3,660		TRAD
500343-010	*	CACI, INC.--FEDERAL	RABADI, G.	10,698	-	-	(0)	10,698	5,884	-	16,582		TRAD
100790-010	*	NAVAL SEA SYSTEMS COMMAND	SECK, M.	3,785	68	-	-	3,853	2,504	-	6,357		TRAD
100708-010	*	NATIONAL SCIENCE FOUNDATION	SIBSON, K.	10,797	255	-	23,941	34,993	6,079	-	41,071		TRAD
100691-010	*	NATIONAL SECURITY AGENCY	SOUSA-POZA, A.	5,958	1,286	-	-	7,243	3,984	-	11,227		TRAD
500343-010	*	CACI, INC.--FEDERAL	SOUSA-POZA, A.	10,698	-	-	(0)	10,698	5,884	-	16,582		TRAD
				317,829	58,710	-	34,090	410,629	194,564	-	605,194	47.38%	
Engineering Management - Cybersecurity													
100746-010	*	NATIONAL SCIENCE FOUNDATION	HUANG, J.	-	-	300,740	-	300,740	-	-	300,740		CYBER
				-	-	300,740	-	300,740	-	-	300,740	0.00%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES					
PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
Computation Modeling & Simulation Engineering													
100599-010	*	OFFICE OF NAVAL RESEARCH	AUDETTE, M.	24,300	4,483	5,525	-	34,307	15,830	-	50,137		TRAD
400311-010	*	CHILDREN'S HEATH FOUNDATION, INC.	AUDETTE, M.	21,278	9,246	-	-	30,524	-	-	30,524		TRAD
400332-010	*	ALZHEIMER'S ASSOCIATION	AUDETTE, M.	13,436	(3,182)	-	-	10,254	1,025	-	11,279		TRAD
100790-010	*	NAVAL SEA SYSTEMS COMMAND	LEATHRUM, J.	15,979	1,757	-	1,020	18,756	11,528	-	30,284		TRAD
500341-001	*	APPLIED RESEARCH ASSOCIATES, INC.	LEATHRUM, J.	(12)	-	-	0	(12)	(7)	-	(19)		TRAD
500342-001	*	WR SYSTEMS, LTD.	LEATHRUM, J.	13,196	-	-	1,754	14,950	9,718	-	24,668		TRAD
100527-027		NASA GODDARD SPACEFLIGHT CENTER	LIU, Z.	3,273	2,903	-	-	6,176	-	-	6,176		TRAD
500397-010	*	FRONTIER TECHNOLOGY INC.	LIU, Z.	6,254	-	-	-	6,254	4,065	-	10,320		TRAD
100599-010	*	OFFICE OF NAVAL RESEARCH	MCKENZIE, F.	24,300	4,483	5,525	-	34,307	15,830	-	50,137		TRAD
400391-010	*	CHILDREN'S HOSPITAL OF THE KING'S DAUGHTERS	MCKENZIE, F.	29,952	-	-	-	29,952	-	-	29,952		TRAD
500341-001	*	APPLIED RESEARCH ASSOCIATES, INC.	MIELKE, R.	(6)	-	-	0	(6)	(3)	-	(9)		TRAD
500342-001	*	WR SYSTEMS, LTD.	MIELKE, R.	6,598	-	-	877	7,475	4,859	-	12,334		TRAD
400332-010	*	ALZHEIMER'S ASSOCIATION	SHEN, Y.	7,886	(1,868)	-	-	6,019	602	-	6,620		TRAD
500397-010	*	FRONTIER TECHNOLOGY INC.	SHEN, Y.	6,254	-	-	-	6,254	4,065	-	10,320		TRAD
100538-010	*	OFFICE OF NAVAL RESEARCH	SHEN, Y.	20,982	2,685	-	-	23,666	13,016	-	36,683		TRAD
100518-010		AMES RESEARCH LABS	SOSONKINA, M.	(232)	(531)	-	-	(763)	(404)	-	(1,167)		TRAD
100695-010		AMES RESEARCH LABS	SOSONKINA, M.	110,555	5,984	-	-	116,539	64,096	-	180,635		TRAD
100797-010		AMES RESEARCH LABS	SOSONKINA, M.	12,411	-	-	-	12,411	6,826	-	19,238		TRAD
300241-010		IOWA STATE UNIVERSITY	SOSONKINA, M.	16,446	6,654	-	-	23,100	12,243	-	35,343		TRAD
300343-020		IOWA STATE UNIVERSITY	SOSONKINA, M.	9,961	3,059	-	-	13,020	6,900	-	19,920		TRAD
100723-010	*	NATIONAL SCIENCE FOUNDATION	SOSONKINA, M.	1,248	-	-	-	1,248	686	-	1,934		TRAD
200253-010	*	VA DEPARTMENT OF TRANSPORTATION	YANG, H.	8,307	75	-	1,398	9,780	2,179	-	11,959		TRAD
200284-010	*	VA TRANSPORTATION RESEARCH COUNCIL	YANG, H.	19,493	277	-	-	19,771	5,140	-	24,911		TRAD
300511-010	*	GEORGE MASON UNIVERSITY	YANG, H.	2,209	675	-	-	2,884	750	-	3,634		TRAD
500382-010	*	LEIDOS	YANG, H.	4,418	-	-	-	4,418	2,430	-	6,849		TRAD
500397-010	*	FRONTIER TECHNOLOGY INC.	YANG, H.	3,127	-	-	-	3,127	2,033	-	5,160		TRAD
				381,612	36,699	11,050	5,049	434,410	183,409	-	617,820	42.22%	
Computation Modeling & Simulation Engineering - VMASC													
100617-010		AIR FORCE MATERIAL COMMAND	SHETTY, S.	21,728	21,115	-	75,000	117,843	23,563	-	141,406		VMASC
100728-010		AIR FORCE MATERIAL COMMAND	SHETTY, S.	48,388	61,621	-	32,340	142,349	60,505	-	202,855		VMASC
200273-010		CENTER FOR INNOVATIVE TECHNOLOGY	SHETTY, S.	77,366	-	-	614	77,980	23,210	-	101,190		VMASC
300388-010		NORFOLK STATE UNIVERSITY	SHETTY, S.	63,106	11,201	-	29,404	103,711	40,869	-	144,580		VMASC
300390-010		UNIVERSITY OF ILLINOIS (ALL CAMPUSES)	SHETTY, S.	33,274	49,498	-	29,730	112,502	45,524	-	158,026		VMASC
300397-010		UNIVERSITY OF ILLINOIS (ALL CAMPUSES)	SHETTY, S.	2,676	18,361	-	1,923	22,961	11,571	-	34,531		VMASC
300514-010		UNIVERSITY OF ILLINOIS (ALL CAMPUSES)	SHETTY, S.	31,281	-	-	-	31,281	8,133	-	39,414		VMASC
400358-010		SENTARA HOSPITALS	SHETTY, S.	134,035	56,918	-	-	190,953	105,024	-	295,977		VMASC
				641,512	235,725	-	171,286	1,048,523	443,819	-	1,492,341	42.33%	
Computation Modeling & Simulation Engineering - Cybersecurity										-			
100723-010	*	NATIONAL SCIENCE FOUNDATION	SOSONKINA, M.	11,730	-	-	1,201	12,931	6,452	-	19,383		CYBER
100746-010	*	NATIONAL SCIENCE FOUNDATION	SOSONKINA, M.	-	-	300,740	-	300,740	-	-	300,740		CYBER
				11,730	-	300,740	1,201	313,671	6,452	-	320,123	2.06%	
TOTAL ENGINEERING				**$ 4,221,737**	**$ 1,245,176**	**$ 1,317,897**	**$ 1,709,754**	**$ 8,494,563**	**$ 2,461,857**	**$ -**	**$ 10,956,421**	**28.98%**	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

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COLLEGE OF HEALTH SCIENCES													
Dean's Office													
100689-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	ADAMS-TUFTS, K .	8,322	69	-	12,712	21,102	671	-	21,774		TRAD
400362-010	*	OHIO SUICIDE PREVENTION FOUNDATION	ADAMS-TUFTS, K .	718	1,120	-	-	1,838	184	-	2,022		TRAD
300477-010		A. T. STILL UNIVERSITY	VAN LUNEN, B.	2,033	-	-	-	2,033	305	-	2,338		TRAD
400340-010		NATIONAL ASSOCIATION RESEARCH AND EDUCATION FOUND	VAN LUNEN, B.	4,627	11,626	-	-	16,254	2,438	-	18,692		TRAD
				15,701	12,815	-	12,712	41,227	3,598	-	44,825	8.73%	
Community & Environmental Health													
100689-020	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	ADAMS-TUFTS, K.	4,062	-	-	7,744	11,806	325	-	12,131		TRAD
400362-010	*	OHIO SUICIDE PREVENTION FOUNDATION	ADAMS-TUFTS, K.	333	130	-	116	579	46	-	625		TRAD
400395-010	*	HEALTHY CHESAPEAKE	AKPINAR-ELCI, M.	1,168	-	-	-	1,168	-	-	1,168		TRAD
400403-010	*	OBICI HEALTH CARE FOUNDATION	AKPINAR-ELCI, M.	1,481	-	-	-	1,481	74	-	1,555		TRAD
400277-010	*	BLUE MOON FUND	BECKER, S.	1,273	1,908	-	11	3,191	479	-	3,670		TRAD
100446-010		U.S. PUBLIC HEALTH SERVICE (CENTERS FOR DISEASE CONTI	BLANDO, J.	5,915	-	-	3,276	9,191	4,595	-	13,786		TRAD
100739-010	*	U.S. PUBLIC HEALTH SERVICE (CENTERS FOR DISEASE CONTI	BLANDO, J.	2,973	1,945	-	407	5,324	1,384	-	6,709		TRAD
100641-010		NAVAL MEDICAL CENTER PORTSMOUTH	CRAMER, R.	(1,437)	-	-	60	(1,377)	(358)	-	(1,736)		TRAD
100717-010		ALABAMA VETERANS AFFAIRS MEDICAL CENTER	CRAMER, R.	10,748	1,545	-	80	12,373	-	-	12,373		TRAD
100726-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	CRAMER, R.	18,442	3,235	-	-	21,676	6,936	-	28,612		TRAD
400362-010	*	OHIO SUICIDE PREVENTION FOUNDATION	CRAMER, R.	19,980	23,750	-	2,200	45,929	4,373	-	50,302		TRAD
100506-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	JENG, A.	204	118	-	-	322	-	-	322		TRAD
400395-010	*	HEALTHY CHESAPEAKE	KEKEH, M.	1,168	-	-	-	1,168	-	-	1,168		TRAD
400403-010	*	OBICI HEALTH CARE FOUNDATION	KEKEH, M.	1,481	-	-	-	1,481	74	-	1,555		TRAD
100739-010	*	U.S. PUBLIC HEALTH SERVICE (CENTERS FOR DISEASE CONTI	LESER, K.	1,982	1,296	-	271	3,550	923	-	4,472		TRAD
100620-010		U.S. DEPARTMENT OF AGRICULTURE	ZHANG, Q.	17,628	2,637	-	-	20,265	2,027	-	22,292		TRAD
100645-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	ZHANG, Q.	14,964	6,181	-	-	21,146	11,630	-	32,776		TRAD
100733-010		U.S. DEPARTMENT OF AGRICULTURE	ZHANG, Q.	2,342	750	-	-	3,092	309	-	3,402		TRAD
300416-010		OLD DOMINION UNIVERSITY	ZHANG, Q.	5,526	-	-	-	5,526	3,039	-	8,565		TRAD
100645-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	ZHANG, Q.	-	38	-	-	38	21	-	58		TRAD
				110,233	43,532	-	14,164	167,928	35,877	-	203,805	21.36%	
Dental Hygiene													
300349-011	*	EASTERN VIRGINIA MEDICAL SCHOOL	MCCOMBS, G.	3,758	-	-	-	3,758	301	-	4,058		TRAD
300349-011	*	EASTERN VIRGINIA MEDICAL SCHOOL	TOLLE, S.	2,006	-	-	-	2,006	160	-	2,167		TRAD
				5,764	-	-	-	5,764	461	-	6,225	8.00%	
Medical Diagnostic Translation Sciences													
100796-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	BRUNO, R.	10,045	4,436	-	-	14,482	7,965	-	22,446		TRAD
300479-010	*	VIRGINIA COMMONWEALTH UNIVERSITY	BRUNO, R.	6,294	4,230	-	-	10,525	-	-	10,525		TRAD
400331-010	*	JEFFRESS RESEARCH GRANTS PROGRAM	BRUNO, R.	2,926	11,180	-	-	14,105	-	-	14,105		TRAD
100517-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	GUO, S.	4,739	3,722	-	-	8,461	4,484	-	12,945		TRAD
400378-010		AMERICAN SOCIETY FOR CLINICAL PATHOLOGY	KRAJ, B.	-	2,500	-	-	2,500	-	-	2,500		TRAD
300479-010	*	VIRGINIA COMMONWEALTH UNIVERSITY	MOLLICA, P.	6,294	4,230	-	-	10,525	-	-	10,525		TRAD
100578-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	RIETHMAN, H.	28,888	11,906	-	71,578	112,372	22,437	-	134,809		TRAD
400272-010		THE WISTAR INSTITUTE	RIETHMAN, H.	5,759	-	-	-	5,759	3,167	-	8,926		TRAD
300479-010	*	VIRGINIA COMMONWEALTH UNIVERSITY	SACHS, P,	6,294	4,230	-	-	10,525	-	-	10,525		TRAD
100796-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	SACHS, P.	10,045	4,436	-	-	14,482	7,965	-	22,446		TRAD
400331-010	*	JEFFRESS RESEARCH GRANTS PROGRAM	SACHS, P.	2,926	11,180	-	-	14,105	-	-	14,105		TRAD
				84,211	62,051	-	71,578	217,839	46,018	-	263,858	21.12%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

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Medical Diagnostic Translation Sciences - Center for Bioelectrics													
100692-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	CATRAVAS, J.	104,492	25,329	-	-	129,821	71,402	-	201,222		CBE
100789-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	CATRAVAS, J.	82,369	29,973	-	-	112,342	61,788	-	174,130		CBE
600210-010		FERRING PHARMACEUTICALS INC.	CATRAVAS, J.	17,912	99	-	6,267	24,278	13,353	-	37,631		CBE
500366-010	*	OLYMPUS CORPORATION OF THE AMERICAS	CATRAVAS, J.	-	(71)	-	1,174	1,103	(81)	-	1,022		CBE
100579-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HELLER, L.	72,283	16,127	-	66,632	155,042	48,625	-	203,667		CBE
100516-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HELLER, R.	160,099	46,745	-	-	206,844	109,627	-	316,471		CBE
500226-000		PULSE BIOSCIENCES (ELECTROBLATE)	HELLER, R.	-	(34)	-	-	(34)	-	-	(34)		CBE
100517-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HELLER, R.	68,592	38,758	-	-	107,350	56,895	-	164,245		CBE
100740-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HELLER, R.	45,969	4,843	-	-	50,812	27,947	-	78,758		CBE
500226-013	*	PULSE BIOSCIENCES (ELECTROBLATE)	HELLER, R.	15,925	3,143	-	-	19,067	10,487	-	29,555		CBE
100548-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	PAKHOMOV, A.	26,294	2,945	-	-	29,239	16,081	-	45,320		CBE
300345-010		OLD DOMINION UNIVERSITY	PAKHOMOV, A.	168,437	42,705	-	266,914	478,056	116,128	-	594,185		CBE
500226-014		PULSE BIOSCIENCES (ELECTROBLATE)	PAKHOMOV, A.	77,697	18,644	-	-	96,340	52,987	-	149,328		CBE
300345-013	*	OLD DOMINION UNIVERSITY	PAKHOMOV, A.	19,200	3,970	-	-	23,169	12,743	-	35,913		CBE
				859,268	233,175	-	340,988	1,433,430	597,983	-	2,031,413	41.72%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST				PROJECT IDC AND FEES					
PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
Nursing												
100669-020	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	APATOV, N.	-	-	-	30,717	30,717	-	-	30,717		TRAD
100533-030 *	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	FOWLER, C.	12,724	1,153	-	11,917	25,794	1,110	-	26,904		TRAD
100670-010 *	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	FOWLER, C.	21,861	2,752	-	4,241	28,855	1,969	-	30,824		TRAD
100689-010 *	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	FOWLER, C.	6,746	98	-	7,696	14,540	548	-	15,088		TRAD
100689-020 *	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	FOWLER, C.	5,143	-	-	10,463	15,606	411	-	16,017		TRAD
100670-021 *	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	GUSTIN, T.	-	22,938	-	-	22,938	1,835	-	24,773		TRAD
100533-030 *	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HANEY, T.	12,724	1,153	-	11,917	25,794	1,110	-	26,904		TRAD
100670-010 *	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HANEY, T.	3,025	2,500	-	-	5,525	442	-	5,967		TRAD
100670-020 *	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HANEY, T.	63,290	4,375	-	46,245	113,911	5,413	-	119,324		TRAD
400368-010 *	AMERICAN ASSOCIATION OF COLLEGES OF NURSING	HANEY, T.	-	521	-	-	521	-	-	521		TRAD
100670-010 *	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HIGGINS, K.	1,008	833	-	-	1,842	147	-	1,989		TRAD
100670-020 *	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HIGGINS, K.	21,097	1,458	-	15,415	37,970	1,804	-	39,775		TRAD
400368-010 *	AMERICAN ASSOCIATION OF COLLEGES OF NURSING	KARLOWICZ, K.	-	348	-	-	348	-	-	348		TRAD
400368-010 *	AMERICAN ASSOCIATION OF COLLEGES OF NURSING	MARTIN, J.	-	2,864	-	-	2,864	-	-	2,864		TRAD
100670-020 *	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	NESBITT, C.	11,296	686	-	18,881	30,863	959	-	31,822		TRAD
100689-020 *	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	NESBITT, C.	5,803	-	-	11,063	16,866	464	-	17,331		TRAD
100533-030 *	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	POSTON, R.	12,724	1,153	-	11,917	25,794	1,110	-	26,904		TRAD
100670-010 *	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	POSTON, R.	1,513	1,250	-	-	2,763	221	-	2,984		TRAD
100670-020 *	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	POSTON, R.	31,645	2,188	-	23,123	56,955	2,707	-	59,662		TRAD
100533-030 *	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	RUTLEDGE, C.	2,570	958	-	17,875	21,403	282	-	21,685		TRAD
100670-010 *	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	RUTLEDGE, C.	1,513	1,250	-	-	2,763	221	-	2,984		TRAD
100670-020 *	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	RUTLEDGE, C.	20,349	1,502	-	4,241	26,092	1,748	-	27,840		TRAD
100670-021 *	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	RUTLEDGE, C.	-	1,825	-	-	1,825	146	-	1,971		TRAD
300504-010	WESTERN CAROLINA UNIVERSITY	RUTLEDGE, C.	22,433	-	-	-	22,433	1,795	-	24,228		TRAD
100533-030 *	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	RUTLEDGE, C.	16,515	772	-	-	17,287	1,383	-	18,670		TRAD
100670-020 *	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	RUTLEDGE, C.	11,296	686	-	18,881	30,863	959	-	31,822		TRAD
100670-021 *	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	RUTLEDGE, C.	-	21,113	-	-	21,113	1,689	-	22,802		TRAD
400368-010 *	AMERICAN ASSOCIATION OF COLLEGES OF NURSING	SHARP, P.	-	521	-	-	521	-	-	521		TRAD
400368-010 *	AMERICAN ASSOCIATION OF COLLEGES OF NURSING	TREMBLAY, B.	-	1,043	-	-	1,043	-	-	1,043		TRAD
100533-030 *	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	WILES, L.	6,362	577	-	5,958	12,897	555	-	13,452		TRAD
			291,636	76,517	-	250,552	618,705	29,029	-	647,734	4.69%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

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(MEASURED BY EXPENDITURES INCURRED)

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PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
School of Rehabilitation Sciences													
400381-010		NATIONAL ASSOCIATION RESEARCH AND EDUCATION FOUND/	CAVALLARIO, J.	709	150	-	-	859	-	-	859		TRAD
100670-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	KOTT, K.	1,513	1,250	-	-	2,763	221	-	2,984		TRAD
100670-020	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	KOTT, K.	31,645	2,188	-	23,123	56,955	2,707	-	59,662		TRAD
400380-010		NATIONAL ATHLETIC TRAINERS' ASSOCIATION	MCCANN, R.	-	994	-	-	994	-	-	994		TRAD
400388-010		MID-ATLANTIC ATHLETIC TRAINERS' ASSOCIATION (MAATA)	MCCANN, R.	-	462	-	-	462	-	-	462		TRAD
300441-010		GEORGE MASON UNIVERSITY	MORRISON, S.	1,274	-	-	-	1,274	-	-	1,274		TRAD
400314-010		MID ATLANTIC TRAINERS' ASSOCIATION	MORRISON, S.	-	-	-	265	265	-	-	265		TRAD
400332-010	*	ALZHEIMER'S ASSOCIATION	MORRISON, S.	7,886	(1,868)	-	-	6,019	602	-	6,620		TRAD
400384-010	*	SENTARA FOUNDATION	MORRISON, S.	5,365	-	-	-	5,365	-	-	5,365		TRAD
400384-010	*	SENTARA FOUNDATION	RUSSELL, D.	2,299	-	-	-	2,299	-	-	2,299		TRAD
				50,691	3,176	-	23,388	77,255	3,529	-	80,785	4.57%	
TOTAL HEALTH SCIENCES				**$ 1,417,503**	**$ 431,266**	**$ -**	**$ 713,380**	**$ 2,562,149**	**$ 716,496**	**$ -**	**$ 3,278,645**	**27.96%**	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

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COLLEGE OF SCIENCES													
Dean's Office													
100550-030		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	DAINES, D.	12,554	12,259	-	-	24,813	13,151	-	37,964		TRAD
				12,554	12,259	-	-	24,813	13,151	-	37,964	53.00%	
Biological Sciences													
100715-010		NATIONAL SCIENCE FOUNDATION	BARSHIS, D.	3,758	1,795	-	480	6,032	1,444	-	7,476		TRAD
300386-010		VA INSTITUTE OF MARINE SCIENCE (VIMS)	BARSHIS, D.	3,863	3,127	-	-	6,990	-	-	6,990		TRAD
400344-010		US-ISRAEL BINATIONAL SCIENCE FOUNDATION	BARSHIS, D.	-	20,910	-	-	20,910	3,137	-	24,047		TRAD
400390-010		PAUL G ALLEN FAMILY FOUNDATION	BARSHIS, D.	4,355	5,138	-	-	9,493	-	-	9,493		TRAD
100688-010	*	NATIONAL SCIENCE FOUNDATION	BARSHIS, D.	15,065	17,344	2	7,043	39,453	8,426	-	47,880		TRAD
100603-010		NATIONAL SCIENCE FOUNDATION	BARTOL, I.	33,756	16,267	-	-	50,022	27,512	-	77,535		TRAD
100610-010		NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	BUTLER, M.	8,549	34,525	-	-	43,074	11,199	-	54,274		TRAD
100744-010		NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	BUTLER, M.	12,178	6,672	-	-	18,849	4,901	-	23,750		TRAD
200214-011		FLORIDA FISH & WILDLIFE CONSERVATION COMMISSION	BUTLER, M.	2,583	6,422	-	654	9,658	2,511	-	12,169		TRAD
200243-010		FLORIDA FISH & WILDLIFE CONSERVATION COMMISSION	BUTLER, M.	33,271	20,984	-	-	54,255	3,219	-	57,474		TRAD
300379-010		UNIVERSITY OF FLORIDA	BUTLER, M.	-	-	-	-	-	(1)	-	(1)		TRAD
400399-010		NATIONAL FISH AND WILDLIFE FOUNDATION	BUTLER, M.	4,825	4,254	5,161	-	14,239	2,360	-	16,599		TRAD
100688-010	*	NATIONAL SCIENCE FOUNDATION	CARPENTER, K.	75,214	76,318	-	18,385	169,917	39,398	-	209,315		TRAD
300461-010		ARIZONA STATE UNIVERSITY	CARPENTER, K.	33,112	35,912	-	4,250	73,274	37,963	-	111,238		TRAD
600174-010		QATAR UNIVERSITY	CARPENTER, K.	(12,488)	-	-	-	(12,488)	(2,498)	-	(14,985)		TRAD
600185-010		WORLD CONSERVATION UNION (IUCN)	CARPENTER, K.	14,903	1,609	-	-	16,512	4,954	-	21,465		TRAD
600190-010		WORLD CONSERVATION UNION (IUCN)	CARPENTER, K.	40,771	6,567	-	3,229	50,566	2,367	-	52,933		TRAD
600207-010		WORLD CONSERVATION UNION (IUCN)	CARPENTER, K.	44,086	5,222	-	-	49,308	5,424	-	54,732		TRAD
600220-010		WORLD CONSERVATION UNION (IUCN)	CARPENTER, K.	26,092	39	-	-	26,131	2,613	-	28,744		TRAD
100688-010	*	NATIONAL SCIENCE FOUNDATION	CARPENTER, K.	60,371	79,776	17	45,000	185,164	36,438	-	221,602		TRAD
100550-021		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	DAINES, D.	(106)	(47)	-	-	(153)	(81)	-	(234)		TRAD
100550-030		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	DAINES, D.	31,285	6,368	-	-	37,653	19,956	-	57,609		TRAD
300437-011		OLD DOMINION UNIVERSITY	DAUER, D.	3,934	-	-	19,829	23,763	1,704	-	25,467		TRAD
300437-012		OLD DOMINION UNIVERSITY	DAUER, D.	1,718	-	-	13,190	14,908	1,488	-	16,396		TRAD
300476-011		OLD DOMINION UNIVERSITY	DAUER, D.	183,314	22,763	-	-	206,077	18,850	-	224,927		TRAD
300476-012		OLD DOMINION UNIVERSITY	DAUER, D.	86,067	-	-	-	86,067	8,607	-	94,673		TRAD
300437-013		OLD DOMINION UNIVERSITY	EGERTON, T.	2,290	-	-	12,435	14,725	1,474	-	16,198		TRAD
300438-010		OLD DOMINION UNIVERSITY	EGERTON, T.	1,117	(260)	-	-	857	112	-	968		TRAD
300473-010		OLD DOMINION UNIVERSITY	EGERTON, T.	24,833	9,189	-	-	34,021	2,483	-	36,505		TRAD
300476-013		OLD DOMINION UNIVERSITY	EGERTON, T.	97,512	1,071	-	-	98,583	9,858	-	108,442		TRAD
100586-010		U.S. DEPARTMENT OF AGRICULTURE	GAFF, H.	-	2,757	-	-	2,757	-	-	2,757		TRAD
100714-010		U.S. PUBLIC HEALTH SERVICE (CENTERS FOR DISEASE CONTI	GAFF, H.	55,066	2,099	-	532	57,697	31,441	-	89,138		TRAD
100684-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	GAFF, H.	27,053	49,883	-	88,189	165,125	42,314	-	207,439		TRAD
200200-010	*	VA DEPARTMENT OF GAME AND INLAND FISHERIES	GAFF, H.	-	-	-	97	97	-	-	97		TRAD
300439-010	*	UNIVERSITY OF RICHMOND	GAFF, H.	3,579	2,017	-	-	5,596	-	-	5,596		TRAD
400334-010	*	NATIONAL CAPITAL LYME DISEASE ASSOCIATION	GAFF, H.	-	(2)	-	-	(2)	-	-	(2)		TRAD
100684-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	GAUTHIER, D .	8,116	14,965	-	26,457	49,537	12,694	-	62,232		TRAD
200200-010	*	VA DEPARTMENT OF GAME AND INLAND FISHERIES	GAUTHIER, D .	-	-	-	290	290	-	-	290		TRAD
200212-010		VA DEPARTMENT OF AGRICULTURE	HORTH, L.	1,113	435	-	-	1,548	-	-	1,548		TRAD
200239-010		VA DEPARTMENT OF AGRICULTURE	HORTH, L.	524	615	-	-	1,139	-	-	1,139		TRAD
200264-010		VA DEPARTMENT OF AGRICULTURE	HORTH, L.	1,970	17,187	-	-	19,157	-	-	19,157		TRAD
200287-010		VA DEPARTMENT OF AGRICULTURE	HORTH, L.	16,725	16,951	-	-	33,676	-	-	33,676		TRAD
400268-010		VIRGINIA STATE BEEKEEPERS ASSOCIATION	HORTH, L.	-	199	-	-	199	-	-	199		TRAD

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OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

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100684-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HYNES, W.	11,146	21,824	-	30,666	63,637	18,134	-	81,771		TRAD
300439-010	*	UNIVERSITY OF RICHMOND	HYNES, W.	1,193	7	-	-	1,200	-	-	1,200		TRAD
400334-010	*	NATIONAL CAPITAL LYME DISEASE ASSOCIATION	HYNES, W.	-	(5)	-	-	(5)	-	-	(5)		TRAD
400360-010		NATIONAL CAPITAL LYME DISEASE ASSOCIATION	HYNES, W.	1,826	9,033	-	-	10,859	-	-	10,859		TRAD
400366-010		NATIONAL CAPITAL LYME DISEASE ASSOCIATION	HYNES, W.	-	257	-	-	257	-	-	257		TRAD
100684-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HYNES, W.	7,790	13,094	-	31,066	51,950	11,486	-	63,437		TRAD
300439-010	*	UNIVERSITY OF RICHMOND	HYNES, W.	-	665	-	-	665	-	-	665		TRAD
100496-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	KRAJ, P.	-	(224)	-	-	(224)	(119)	-	(343)		TRAD
400339-010	*	PEW CHARITABLE TRUSTS	MAXWELL, S.	7,255	33,441	-	-	40,696	(183)	-	40,513		TRAD
100671-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	NEELAKANTA, G.	103,377	22,959	-	-	126,336	69,485	-	195,821		TRAD
400302-010		JEFFRESS RESEARCH GRANTS PROGRAM	OSGOOD, C.	-	186	-	-	186	-	-	186		TRAD
400304-010		ALFRED P. SLOAN FOUNDATION	OSGOOD, C.	979	10,350	-	1,578	12,907	-	-	12,907		TRAD
100555-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	OSGOOD, C.	2,286	265	19	-	2,570	1,403	-	3,973		TRAD
100585-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	OSGOOD, C.	6,270	619	1,337	-	8,226	3,789	-	12,015		TRAD
400339-010	*	PEW CHARITABLE TRUSTS	OSGOOD, C.	7,255	33,441	-	-	40,696	(183)	-	40,513		TRAD
100671-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	SULTANA, H.	68,918	15,306	-	-	84,224	46,323	-	130,547		TRAD
400019-050		EASTERN VIRGINIA MEDICAL SCHOOL	SWANSON, J.	-	(1,619)	-	-	(1,619)	-	-	(1,619)		TRAD
100724-010		NATIONAL SCIENCE FOUNDATION	WALLACE, L.	4,277	5,461	-	-	9,738	5,356	-	15,094		TRAD
100542-010		NATIONAL SCIENCE FOUNDATION	WALTERS, E.	50,047	30,437	-	19,439	99,923	20,926	-	120,849		TRAD
				1,222,989	684,567	6,536	322,808	2,236,900	518,686	-	2,755,586	23.19%	
Center for Coastal Physical Oceanography													
300385-010		STATE UNIVERSITY OF NEW JERSEY (ALL CAMPUSES)	ATKINSON, L.	-	-	-	-	-	(0)	-	(0)		TRAD
300385-020		STATE UNIVERSITY OF NEW JERSEY (ALL CAMPUSES)	ATKINSON, L.	79,390	38,881	-	-	118,271	65,049	-	183,321		TRAD
300451-010		UNIVERSITY OF RHODE ISLAND	ATKINSON, L.	17,873	-	-	-	17,873	9,830	-	27,703		TRAD
300273-011		VA INSTITUTE OF MARINE SCIENCE (VIMS)	COVI, M.	518	1,994	-	-	2,512	-	-	2,512		TRAD
300484-010		VA INSTITUTE OF MARINE SCIENCE (VIMS)	COVI, M.	1,685	-	-	-	1,685	438	-	2,123		TRAD
100598-010	*	NATIONAL SCIENCE FOUNDATION	DINNIMAN, M.	10,807	-	-	-	10,807	5,944	-	16,751		TRAD
100662-010	*	NATIONAL SCIENCE FOUNDATION	DINNIMAN, M.	8,560	-	-	-	8,560	4,708	-	13,268		TRAD
100686-010	*	NATIONAL SCIENCE FOUNDATION	DINNIMAN, M.	16,034	911	-	-	16,945	9,320	-	26,265		TRAD
100747-010	*	NATIONAL SCIENCE FOUNDATION	DINNIMAN, M.	4,280	135	-	-	4,415	2,428	-	6,844		TRAD
100539-010	*	NATIONAL SCIENCE FOUNDATION	HOFMANN, E.	-	221	-	-	221	117	-	339		TRAD
100686-010	*	NATIONAL SCIENCE FOUNDATION	HOFMANN, E.	16,034	911	-	-	16,945	9,320	-	26,265		TRAD
100735-011		NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	HOFMANN, E.	11,566	-	-	-	11,566	6,361	-	17,927		TRAD
200249-011	*	HAMPTON ROADS SANITATION DISTRICT COMMISSION	HOFMANN, E.	3,247	-	-	1,196	4,444	444	-	4,888		TRAD
200275-011	*	HAMPTON ROADS SANITATION DISTRICT COMMISSION	HOFMANN, E.	9,553	-	-	-	9,553	955	-	10,508		TRAD
300279-010		PENNSYLVANIA STATE UNIVERSITY	HOFMANN, E.	9,748	-	-	-	9,748	5,166	-	14,914		TRAD
300322-010		UNIVERSITY OF SOUTHERN MISSISSIPPI	HOFMANN, E.	15,696	2,678	-	-	18,374	9,738	-	28,112		TRAD
300399-010		VA INSTITUTE OF MARINE SCIENCE (VIMS)	HOFMANN, E.	54,471	-	-	-	54,471	29,959	-	84,430		TRAD
400355-010		CHESAPEAKE BAY FOUNDATION	HOFMANN, E.	-	1,754	-	-	1,754	-	-	1,754		TRAD
400356-010		CHESAPEAKE BAY FOUNDATION	HOFMANN, E.	-	2,363	-	-	2,363	-	-	2,363		TRAD
100577-010		NATIONAL SCIENCE FOUNDATION	KLINCK, J.	46,412	5,618	-	-	52,030	28,616	-	80,646		TRAD
100589-010		NASA GODDARD SPACEFLIGHT CENTER	KLINCK, J.	27,312	1,604	8,398	-	37,315	15,904	-	53,219		TRAD
100598-010	*	NATIONAL SCIENCE FOUNDATION	KLINCK, J.	10,807	-	-	-	10,807	5,944	-	16,751		TRAD
100657-010		NASA GODDARD SPACEFLIGHT CENTER	KLINCK, J.	14,679	651	-	-	15,330	8,432	-	23,762		TRAD
100660-010		LOS ALAMOS NATIONAL LABORATORIES	KLINCK, J.	21,042	-	-	-	21,042	11,573	-	32,614		TRAD
100687-010		NASA/HEADQUARTERS	KLINCK, J.	44,308	44,150	-	23,198	111,656	48,652	-	160,308		TRAD
100747-010	*	NATIONAL SCIENCE FOUNDATION	KLINCK, J.	4,280	135	-	-	4,415	2,428	-	6,844		TRAD
200275-011	*	HAMPTON ROADS SANITATION DISTRICT COMMISSION	KLINCK, J.	6,368	-	-	-	6,368	637	-	7,005		TRAD
100539-010	*	NATIONAL SCIENCE FOUNDATION	ST- LAURENT, P.	-	221	-	-	221	117	-	339		TRAD
				434,670	102,228	8,398	24,395	569,691	282,082	-	851,773	49.52%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES					
PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
Center for Coastal Physical Oceanography - MARI													
100565-010		U.S. FISH AND WILDLIFE SERVICES	PLAG, H.	15,942	4,037	-	20,046	40,025	-	-	40,025		MARI
100678-010		NASA/HEADQUARTERS	PLAG, H.	307	-	-	-	307	80	-	387		MARI
				16,249	4,037	-	20,046	40,332	80	-	40,412	0.20%	
Chemistry and Biochemistry													
100646-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	BAYSE, C.	53,074	4,681	-	11,304	69,059	31,765	-	100,825		TRAD
400375-010		VIRGINIA ACADEMY OF SCIENCE	BAYSE, C.	2,367	-	-	-	2,367	-	-	2,367		TRAD
100664-010	*	NATIONAL SCIENCE FOUNDATION	BAYSE, C.	9,645	1,396	-	41,339	52,380	6,073	-	58,452		TRAD
300522-010	*	COLLEGE OF WILLIAM AND MARY	BAYSE, C.	689	-	-	-	689	379	-	1,068		TRAD
100039-010		NASA GODDARD SPACEFLIGHT CENTER	BERNATH, P.	(1,892)	-	-	-	(1,892)	(1,003)	-	(2,895)		TRAD
100584-010		NASA GODDARD SPACEFLIGHT CENTER	BERNATH, P.	68,466	2,918	-	-	71,383	39,261	-	110,644		TRAD
100611-010		NASA GODDARD SPACEFLIGHT CENTER	BERNATH, P.	172,081	18,620	-	2,679	193,380	104,886	-	298,266		TRAD
100698-010		NASA/HEADQUARTERS	BERNATH, P.	86,630	906	-	-	87,536	48,145	-	135,680		TRAD
300275-010		OLD DOMINION UNIVERSITY	BERNATH, P.	-	(56)	-	-	(56)	(30)	-	(86)		TRAD
100693-010		OAK RIDGE NATIONAL LABORATORY	CHEN, H.	19,223	468	-	-	19,691	10,830	-	30,521		TRAD
300437-010		OLD DOMINION UNIVERSITY	DONAT, J.	19,358	49,583	-	22,774	91,715	4,870	-	96,585		TRAD
300476-010		OLD DOMINION UNIVERSITY	DONAT, J.	298,732	162,544	-	-	461,275	37,535	-	498,810		TRAD
100627-010	*	U.S. DEPARTMENT OF AGRICULTURE	GREENE, L .	10,201	8,045	-	-	18,246	7,820	-	26,066		TRAD
300440-010		VIRGINIA ACADEMY OF SCIENCE	GREENE, L.	-	763	-	-	763	-	-	763		TRAD
100627-010	*	U.S. DEPARTMENT OF AGRICULTURE	GREENE, L.	9,837	2,811	-	-	12,648	5,421	-	18,070		TRAD
100523-010		NATIONAL SCIENCE FOUNDATION	HATCHER, P.	3,168	-	-	-	3,168	1,679	-	4,847		TRAD
100597-010		NATIONAL SCIENCE FOUNDATION	HATCHER, P.	22,483	7,059	-	3,884	33,426	16,248	-	49,674		TRAD
300323-010		TEXAS A&M UNIVERSITY	HATCHER, P.	-	578	-	-	578	306	-	885		TRAD
300464-010		TEXAS A&M UNIVERSITY	HATCHER, P.	108,219	24,477	-	-	132,696	72,983	-	205,678		TRAD
300466-010		UNIVERSITY OF MAINE	HATCHER, P.	47,610	3,389	-	9,726	60,725	26,025	-	86,750		TRAD
100452-010		NATIONAL SCIENCE FOUNDATION	HOLDER, A.	9,564	10,644	-	-	20,208	10,710	-	30,918		TRAD
100664-010	*	NATIONAL SCIENCE FOUNDATION	HOLDER, A.	6,430	930	-	27,559	34,920	4,048	-	38,968		TRAD
100718-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HOLDER, A.	26,846	3,428	-	43,317	73,591	4,676	-	78,267		TRAD
100718-020	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HOLDER, A.	7,019	-	-	3,635	10,654	562	-	11,215		TRAD
300455-020	*	UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER	HOLDER, A.	-	168	-	-	168	-	-	168		TRAD
100627-010	*	U.S. DEPARTMENT OF AGRICULTURE	LEE, J.	46,756	25,331	-	-	72,086	30,896	-	102,982		TRAD
100637-010		U.S. GEOLOGICAL SURVEY	MAO, J.	3,213	3,322	-	-	6,535	-	-	6,535		TRAD
100681-010		NATIONAL SCIENCE FOUNDATION	MAO, J.	20,150	762	-	-	20,913	11,502	-	32,415		TRAD
100808-010		NATIONAL SCIENCE FOUNDATION	MAO, J.	1,406	-	-	-	1,406	773	-	2,179		TRAD
100512-010	*	NATIONAL SCIENCE FOUNDATION	MOPPER, K.	-	186	-	-	186	99	-	285		TRAD
100512-020	*	NATIONAL SCIENCE FOUNDATION	MOPPER, K.	8,009	2,176	-	-	10,186	5,398	-	15,584		TRAD
100512-021		NATIONAL SCIENCE FOUNDATION	MOPPER, K.	-	767	-	-	767	407	-	1,174		TRAD
400386-010		INTERNATIONAL CENTER FOR DIFFRACTION DATA	PAGOLA, S.	-	4,523	-	-	4,523	-	-	4,523		TRAD
100556-010		NATIONAL SCIENCE FOUNDATION	POUTSMA, J.	4,478	-	-	-	4,478	2,373	-	6,851		TRAD
300355-010		COLLEGE OF WILLIAM AND MARY	POUTSMA, J.	4,095	-	-	-	4,095	2,252	-	6,347		TRAD
100606-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	PURCELL, E.	40,433	17,554	-	-	57,987	4,639	-	62,626		TRAD
300522-010	*	COLLEGE OF WILLIAM AND MARY	PURCELL, E.	1,033	-	-	-	1,033	568	-	1,602		TRAD
500226-017	*	PULSE BIOSCIENCES (ELECTROBLATE)	PURCELL, E.	7,873	3,024	-	-	10,897	5,993	-	16,890		TRAD
200272-010	*	CENTER FOR INNOVATIVE TECHNOLOGY	RAMJEE, B.	521	640	-	-	1,161	348	-	1,509		TRAD

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

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FOR FISCAL YEAR 2019

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100729-010		NATIONAL SCIENCE FOUNDATION	WANG, G.	27,519	17,938	-	2,990	48,448	25,002	-	73,450		TRAD
300483-010		OLD DOMINION UNIVERSITY	WANG, G.	1,507	1,140	-	-	2,647	-	-	2,647		TRAD
500301-010		BOEHRINGER INGELHEIM	WANG, G.	-	251	4,672	198	5,121	-	-	5,121		TRAD
100555-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	XU, N .	43,425	5,042	365	-	48,832	26,657	-	75,489		TRAD
100585-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	XU, N .	16,278	814	5,348	-	22,440	9,400	-	31,840		TRAD
100254-010		NATIONAL SCIENCE FOUNDATION	XU, N.	-	-	-	-	-	(0)	-	(0)		TRAD
100490-010		NATIONAL SCIENCE FOUNDATION	XU, N.	12,077	2,048	384	-	14,509	7,486	-	21,995		TRAD
100490-020		NATIONAL SCIENCE FOUNDATION	XU, N.	-	-	-	1,700	1,700	-	-	1,700		TRAD
100490-030		NATIONAL SCIENCE FOUNDATION	XU, N.	1,505	-	-	2,286	3,791	-	-	3,791		TRAD
100585-011		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	XU, N.	11,335	-	-	-	11,335	6,234	-	17,569		TRAD
100585-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	XU, X.	8,801	1,663	-	-	10,464	5,755	-	16,219		TRAD
				1,240,162	390,533	10,769	173,391	1,814,855	578,971	-	2,393,826	31.90%	
Chemistry and Biochemistry- ARC													
200272-010	*	CENTER FOR INNOVATIVE TECHNOLOGY	RAMJEE, B.	2,357	656	-	-	3,013	904		3,917		ARC
				2,357	656	-	-	3,013	904	-	3,917	30.00%	
Computer Sciences													
100483-010	*	NATIONAL SCIENCE FOUNDATION	CHERNIKOV, A.	19,905	3,376	-	-	23,282	12,339	-	35,621		TRAD
400303-020		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	CHERNIKOV, A.	32,243	1,500	-	2,642	36,385	2,171	-	38,555		TRAD
100558-010		LANGLEY RESEARCH CENTER	CHRISOCHOIDES, N.	61,717	395	-	11,309	73,422	34,162	-	107,583		TRAD
400406-010		SOUTHERN UNIVERSITIES RESEARCH ASSOC (SURA)	CHRISOCHOIDES, N.	9,293	-	-	-	9,293	-	-	9,293		TRAD
100483-010	*	NATIONAL SCIENCE FOUNDATION	CHRISOCHOIDES, N.	38,640	6,554	-	-	45,194	23,953	-	69,147		TRAD
100689-020	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	GUPTA, A.	10,946	-	-	21,526	32,472	876	-	33,348		TRAD
100689-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	GUPTA, A.	6,746	98	-	7,696	14,540	548	-	15,088		TRAD
100532-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HE, J .	17,163	1,345	-	-	18,507	10,179	-	28,687		TRAD
100468-010	*	NATIONAL SCIENCE FOUNDATION	HE, J.	3,302	2,657	-	-	5,959	3,158	-	9,117		TRAD
100468-010	*	NATIONAL SCIENCE FOUNDATION	JI, S.	1,321	1,063	-	-	2,384	1,263	-	3,647		TRAD
100186-010		NATIONAL SCIENCE FOUNDATION	LI, Y.	1,380	-	-	-	1,380	690	-	2,070		TRAD
100527-023		NASA GODDARD SPACEFLIGHT CENTER	LI, Y.	1,301	240	-	3,805	5,346	-	-	5,346		TRAD
500069-010		PRENTICE HALL BUSINESS PUBLISHING	MALY, K.	-	1,918	-	-	1,918	-	-	1,918		TRAD
600202-010		ACHARYA INSTITUTE OF TECHNOLOGY	MALY, K.	1,638	2,859	-	23,618	28,115	-	-	28,115		TRAD
100467-010		NATIONAL SCIENCE FOUNDATION	NADEEM, T.	(1,546)	-	-	-	(1,546)	(820)	-	(2,366)		TRAD
100552-010	*	NATIONAL SCIENCE FOUNDATION	NELSON, M.	17,168	1,778	-	2,023	20,969	10,042	-	31,010		TRAD
100519-010	*	INSTITUTE OF MUSEUM AND LIBRARY SERVICES	NELSON, M.	11,918	-	-	15,000	26,918	6,317	-	33,234		TRAD
100676-010	*	NATIONAL ENDOWMENT FOR THE HUMANITIES	NELSON, M.	3,192	-	-	-	3,192	1,755	-	4,947		TRAD
300380-010	*	OLD DOMINION UNIVERSITY	NELSON, M.	36,021	2,563	-	13,657	52,241	-	-	52,241		TRAD
100554-010	*	NATIONAL SCIENCE FOUNDATION	RANJAN, D.	15,792	-	-	904	16,696	8,370	-	25,065		TRAD
100468-010	*	NATIONAL SCIENCE FOUNDATION	RANJAN, D.	991	797	-	-	1,788	947	-	2,735		TRAD
100718-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	RANJAN, D.	26,846	3,428	-	43,317	73,591	4,676	-	78,267		TRAD
100718-020	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	RANJAN, D.	7,019	-	-	3,635	10,654	562	-	11,215		TRAD

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

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FOR FISCAL YEAR 2019

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100801-010		NATIONAL SCIENCE FOUNDATION	WANG, C.	1,449	-	-	-	1,449	797	-	2,245		TRAD
100745-010	*	NATIONAL SCIENCE FOUNDATION	WANG, C.	462	300	-	-	762	419	-	1,181		TRAD
600214-010		HUAWEI TECHNOLOGIES CO. LTD	WANG, C.	2,063	1,814	-	-	3,877	2,132	-	6,010		TRAD
100519-010	*	INSTITUTE OF MUSEUM AND LIBRARY SERVICES	WEIGLE, M.	14,263	1,520	-	15,000	30,782	8,365	-	39,147		TRAD
100552-010	*	NATIONAL SCIENCE FOUNDATION	WEIGLE, M.	35,951	3,263	5,000	3,696	47,910	20,783	-	68,693		TRAD
100676-010	*	NATIONAL ENDOWMENT FOR THE HUMANITIES	WEIGLE, M.	6,216	2,231	-	-	8,447	4,646	-	13,093		TRAD
300380-010	*	OLD DOMINION UNIVERSITY	WEIGLE, M.	58,573	9,435	-	30,606	98,613	-	-	98,613		TRAD
300491-010		PENNSYLVANIA STATE UNIVERSITY	WU, J.	1,745	1,762	-	-	3,507	1,929	-	5,435		TRAD
100554-010	*	NATIONAL SCIENCE FOUNDATION	ZUBAIR, M.	15,792	-	-	904	16,696	8,370	-	25,065		TRAD
300437-015		OLD DOMINION UNIVERSITY	ZUBAIR, M.	3,222	-	-	5,500	8,722	873	-	9,595		TRAD
300476-015		OLD DOMINION UNIVERSITY	ZUBAIR, M.	17,823	-	-	-	17,823	1,782	-	19,606		TRAD
500268-003		ENGILITY	ZUBAIR, M.	27,381	(12)	-	-	27,370	7,116	-	34,486		TRAD
500268-004		ENGILITY	ZUBAIR, M.	44,223	2,628	-	-	46,851	12,181	-	59,032		TRAD
100468-010	*	NATIONAL SCIENCE FOUNDATION	ZUBAIR, M.	991	797	-	-	1,788	947	-	2,735		TRAD
				553,146	54,311	5,000	204,837	817,294	191,526	-	1,008,821	23.43%	
Computer Sciences - VMASC													
100552-010	*	NATIONAL SCIENCE FOUNDATION	NELSON, M.	18,782	1,484	5,000	1,674	26,941	10,741	-	37,682		VMASC
100676-010	*	NATIONAL ENDOWMENT FOR THE HUMANITIES	NELSON, M.	3,024	2,231	-	-	5,255	2,890	-	8,145		VMASC
300472-010		VA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	NELSON, M.	6,081	-	-	-	6,081	3,345	-	9,426		VMASC
100519-010	*	INSTITUTE OF MUSEUM AND LIBRARY SERVICES	NELSON, M.	2,345	1,520	-	-	3,864	2,048	-	5,912		VMASC
300380-010	*	OLD DOMINION UNIVERSITY	NELSON, M.	22,552	6,871	-	16,949	46,372	-	-	46,372		VMASC
				52,784	12,106	5,000	18,623	88,513	19,024	-	107,538	21.49%	
Computer Sciences - Cybersecurity													
100746-010	*	NATIONAL SCIENCE FOUNDATION	CHRISOCHOIDES, N.	-	-	300,740	-	300,740	-		300,740		CYBER
100745-010	*	NATIONAL SCIENCE FOUNDATION	WANG, C.	3,789	-	-	2,236	6,025	2,084	-	8,109		CYBER
600214-010		HUAWEI TECHNOLOGIES CO. LTD	WANG, C.	-	-	-	3,873	3,873	2,129	-	6,002		CYBER
100799-010	*	NATIONAL SECURITY AGENCY	ZHAO, D.	1,818	-	-	-	1,818	1,000	-	2,818		CYBER
				5,607	-	300,740	6,109	312,456	5,213	-	317,670	1.67%	
Mathematics and Statistics													
100700-010		LANGLEY RESEARCH CENTER	BADAVI, F.	184,069	5,329	-	-	189,399	49,244	-	238,642		TRAD
300437-014		OLD DOMINION UNIVERSITY	CHAGANTY, R.	-	-	-	5,587	5,587	558	-	6,145		TRAD
300476-014		OLD DOMINION UNIVERSITY	CHAGANTY, R.	16,165	-	-	-	16,165	1,617	-	17,782		TRAD
200282-010	*	VA DEPARTMENT OF MOTOR VEHICLES	DIAWARA, N	13,223	4,314	-	-	17,537	4,560	-	22,097		TRAD
100689-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	DIAWARA, N.	6,746	98	-	7,696	14,540	548	-	15,088		TRAD
100689-020	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	DIAWARA, N.	10,946	-	-	21,526	32,472	876	-	33,348		TRAD
200257-010	*	VA DEPARTMENT OF MOTOR VEHICLES	DIAWARA, N.	5,991	897	-	176	7,063	1,791	-	8,854		TRAD
300493-010		OLD DOMINION UNIVERSITY	DIAWARA, N.	2,029	2,437	-	-	4,466	-	-	4,466		TRAD
100802-010	*	NATIONAL SCIENCE FOUNDATION	DIAWARA, N.	3,351	377	-	-	3,728	2,051	-	5,779		TRAD
100501-010	*	NATIONAL SCIENCE FOUNDATION	DOBBS, F.	-	10,984	-	262	11,246	5,821	-	17,067		TRAD
400203-005		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	HU, F.	33,185	1,060	-	532	34,777	8,904	-	43,681		TRAD
400203-006		NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	HU, F.	27,593	2,686	-	-	30,279	7,873	-	38,152		TRAD
400309-020		SIMONS FOUNDATION	JOO, S.	-	4,972	-	-	4,972	829	-	5,800		TRAD
400309-030		SIMONS FOUNDATION	JOO, S.	-	1,627	-	-	1,627	271	-	1,898		TRAD
100665-010		NATIONAL SCIENCE FOUNDATION	LUO, L.	20,908	-	-	-	20,908	11,499	-	32,407		TRAD
400347-011		JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	LUO, L.	61,854	-	-	-	61,854	-	-	61,854		TRAD
100645-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	PARK, K.	4,988	2,073	-	-	7,061	3,884	-	10,945		TRAD
100243-010	*	NATIONAL SCIENCE FOUNDATION	PENG, Y.	3,657	3,643	-	-	7,300	3,869	-	11,168		TRAD
100480-010	*	LANGLEY RESEARCH CENTER	TWEED, J.	6,684	-	-	-	6,684	1,738	-	8,422		TRAD
100480-010	*	LANGLEY RESEARCH CENTER	WILSON, J.	126,995	-	-	-	126,995	33,019	-	160,014		TRAD
100794-010		NATIONAL SCIENCE FOUNDATION	XU, Y.	-	-	-	11,544	11,544	-	-	11,544		TRAD
100685-010		ARMY RESEARCH OFFICE	YAMALEEV, N.	93,734	3,618	-	-	97,352	53,543	-	150,895		TRAD
100564-010		NATIONAL SCIENCE FOUNDATION	ZHOU, R.	5,672	425	-	-	6,096	3,353	-	9,450		TRAD
				627,790	44,539	-	47,323	719,652	195,845	-	915,496	27.21%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES					
PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
Ocean, Earth and Atmospheric Sciences													
100805-010		NATIONAL SCIENCE FOUNDATION	BOCHDANSKY, A.	9,651	14,076	1,869	-	25,596	13,050	-	38,646		TRAD
100536-010		NATIONAL SCIENCE FOUNDATION	BURDIGE, D.	23,865	5,310	-	39,235	68,410	16,046	-	84,456		TRAD
100705-010		NATIONAL SCIENCE FOUNDATION	BURDIGE, D.	20,662	4,828	2,500	-	27,990	14,019	-	42,009		TRAD
100608-010	*	NATIONAL SCIENCE FOUNDATION	BURDIGE, D.	44,665	8,014	8,697	2,389	63,764	28,973	-	92,737		TRAD
100530-010		NATIONAL SCIENCE FOUNDATION	CHAPPELL, P.	6,951	15,323	-	-	22,274	11,805	-	34,080		TRAD
100547-010		NATIONAL SCIENCE FOUNDATION	CHAPPELL, P.	1,258	217	-	-	1,474	781	-	2,256		TRAD
100666-010		NATIONAL SCIENCE FOUNDATION	CHAPPELL, P.	-	-	-	45,566	45,566	-	-	45,566		TRAD
100803-010		NATIONAL SCIENCE FOUNDATION	CHAPPELL, P.	19,554	6,976	-	-	26,530	14,591	-	41,121		TRAD
100625-010	*	NATIONAL SCIENCE FOUNDATION	COVI, M .	13,652	878	-	-	14,530	7,991	-	22,521		TRAD
200246-010	*	CITY OF VIRGINIA BEACH	COVI, M .	6,239	92	-	-	6,331	1,646	-	7,977		TRAD
300366-010	*	UNIVERSITY OF NORTH CAROLINA	COVI, M .	2,007	2,402	-	-	4,409	2,425	-	6,834		TRAD
300471-010	*	VA INSTITUTE OF MARINE SCIENCE (VIMS)	COVI, M .	41,066	2,808	-	-	43,874	-	-	43,874		TRAD
200238-010		CITY OF VIRGINIA BEACH	COVI, M.	10,219	-	-	-	10,219	2,657	-	12,876		TRAD
300468-010		UNIVERSITY OF VIRGINIA	COVI, M.	5,350	301	-	-	5,651	1,469	-	7,120		TRAD
300469-010		UNIVERSITY OF VIRGINIA	COVI, M.	546	1,006	-	-	1,553	78	-	1,630		TRAD
300484-010		VA INSTITUTE OF MARINE SCIENCE (VIMS)	COVI, M.	19,806	2,440	-	3,654	25,900	5,784	-	31,684		TRAD
300512-010		UNIVERSITY OF VIRGINIA	COVI, M.	2,512	-	-	-	2,512	-	-	2,512		TRAD
400317-010		ELIZABETH RIVER PROJECT (LIVING RIVER RESTORATION TRU	COVI, M.	10,043	-	-	-	10,043	2,611	-	12,654		TRAD
400379-010		MID-ATLANTIC COASTAL OCEAN OBSERVING REGIONAL ASSO	COVI, M.	6,215	-	-	-	6,215	1,989	-	8,204		TRAD
100257-010		NATIONAL SCIENCE FOUNDATION	CUTTER, G.	-	14,504	-	-	14,504	7,687	-	22,191		TRAD
100484-010		NATIONAL SCIENCE FOUNDATION	CUTTER, G.	24,264	15,593	-	-	39,857	21,124	-	60,981		TRAD
100649-010		NATIONAL SCIENCE FOUNDATION	CUTTER, G.	93,974	171,084	-	-	265,058	145,782	-	410,839		TRAD
100677-010		NATIONAL SCIENCE FOUNDATION	CUTTER, G.	23,585	7,356	-	-	30,941	17,017	-	47,958		TRAD
400400-010		SAN FRANCISCO ESTUARY INSTITUTE	CUTTER, G.	2,284	117	-	-	2,401	1,320	-	3,721		TRAD
100501-010	*	NATIONAL SCIENCE FOUNDATION	DOBBS, F.	-	10,139	-	242	10,381	5,374	-	15,755		TRAD
100655-010	*	NATIONAL SCIENCE FOUNDATION	FILIPPINO, K.	10,530	-	-	45,224	55,754	5,792	-	61,546		TRAD
100252-010	*	NATIONAL SCIENCE FOUNDATION	GEORGEN, J.	24,124	39,576	-	34,244	97,944	33,761	-	131,705		TRAD
100616-010		NATIONAL SCIENCE FOUNDATION	GEORGEN, J.	-	-	1,756	-	1,756	-	-	1,756		TRAD
100651-010		NATIONAL SCIENCE FOUNDATION	GEORGEN, J.	3,207	549	-	-	3,756	2,066	-	5,822		TRAD
100527-025		NASA GODDARD SPACEFLIGHT CENTER	HALE, R.	3,788	420	-	-	4,208	-	-	4,208		TRAD
200286-010		HAMPTON ROADS SANITATION DISTRICT COMMISSION	HALE, R.	29,092	1,127	-	8,590	38,809	7,555	-	46,363		TRAD
100511-010		NASA/HEADQUARTERS	HAMLINGTON, B.	9,410	1,980	-	-	11,390	6,037	-	17,427		TRAD
100657-010		NASA GODDARD SPACEFLIGHT CENTER	HAMLINGTON, B.	3,178	(5,222)	5,438	-	3,394	(1,124)	-	2,270		TRAD
100655-010	*	NATIONAL SCIENCE FOUNDATION	HARVEY, H.	10,530	-	-	45,224	55,754	5,792	-	61,546		TRAD
100540-010		NORTH PACIFIC RESEARCH BOARD	HARVEY, R.	444	588	-	-	1,033	547	-	1,580		TRAD
100615-010		NATIONAL SCIENCE FOUNDATION	HARVEY, R.	57,223	16,648	-	3,969	77,840	40,629	-	118,469		TRAD
600198-010		STANTEC	HARVEY, R.	-	-	-	-	-	0	-	0		TRAD
100656-010	*	NASA GODDARD SPACEFLIGHT CENTER	HILL, V	31,424	4,224	-	519	36,167	19,606	-	55,774		TRAD
300498-010	*	VA INSTITUTE OF MARINE SCIENCE (VIMS)	HILL, V	13,108	33	-	-	13,140	7,227	-	20,368		TRAD
100604-010		NATIONAL SCIENCE FOUNDATION	HILL, V.	34,153	14,813	17,216	-	66,181	26,931	-	93,112		TRAD
200255-010		VA MARINE RESOURCES COMMISSION (VMRC)	JONES, C.	57,879	4,853	-	-	62,732	15,683	-	78,415		TRAD
200283-010		VA MARINE RESOURCES COMMISSION (VMRC)	JONES, C.	150,595	4,506	-	-	155,102	38,775	-	193,877		TRAD
100735-010		NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	MULHOLLAND, M.	44,979	8,226	-	3,204	56,409	29,263	-	85,672		TRAD
200249-010		HAMPTON ROADS SANITATION DISTRICT COMMISSION	MULHOLLAND, M.	27,490	2,674	-	-	30,164	3,016	-	33,181		TRAD
200275-010		HAMPTON ROADS SANITATION DISTRICT COMMISSION	MULHOLLAND, M.	94,595	15,188	-	3,147	112,930	10,978	-	123,909		TRAD
100512-010	*	NATIONAL SCIENCE FOUNDATION	MULHOLLAND, M.	-	304	-	-	304	161	-	465		TRAD
100512-020	*	NATIONAL SCIENCE FOUNDATION	MULHOLLAND, M.	13,068	3,551	-	-	16,619	8,808	-	25,427		TRAD
200249-011	*	HAMPTON ROADS SANITATION DISTRICT COMMISSION	MULHOLLAND, M.	7,950	-	-	-	7,950	795	-	8,745		TRAD
200275-011	*	HAMPTON ROADS SANITATION DISTRICT COMMISSION	MULHOLLAND, M.	7,593	-	-	-	7,593	759	-	8,353		TRAD

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

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100679-010		NATIONAL SCIENCE FOUNDATION	SCHMIDT, M.	78,705	10,174	-	-	88,880	48,884	-	137,763		TRAD
100712-010		NATIONAL SCIENCE FOUNDATION	SCHMIDT, M.	13,792	2,082	16,327	-	32,201	8,731	-	40,932		TRAD
100546-010		NATIONAL SCIENCE FOUNDATION	SEDWICK, P.	-	-	3,509	-	3,509	-	-	3,509		TRAD
100563-010		NATIONAL SCIENCE FOUNDATION	SEDWICK, P.	46,440	9,085	-	-	55,525	30,539	-	86,064		TRAD
100707-010		NATIONAL SCIENCE FOUNDATION	SEDWICK, P.	4,274	2,209	-	-	6,484	3,566	-	10,050		TRAD
100742-010		NATIONAL SCIENCE FOUNDATION	SEDWICK, P.	7,709	15,042	-	-	22,750	12,513	-	35,263		TRAD
100802-010	*	NATIONAL SCIENCE FOUNDATION	WHITTECAR, G.	3,351	377	-	-	3,728	2,051	-	5,779		TRAD
200188-040	*	OLD DOMINION UNIVERSITY	WHITTECAR, G.	3,184	4,725	-	9,261	17,170	633	-	17,803		TRAD
300041-010		VA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	WHITTECAR, G.	-	1,571	-	-	1,571	550	-	2,121		TRAD
500318-010		WEANACK LAND LIMITED PARTNERS	WHITTECAR, G.	6,134	943	-	-	7,077	1,840	-	8,917		TRAD
100608-010	*	NATIONAL SCIENCE FOUNDATION	ZIMMERMAN, R.	44,665	8,014	8,697	2,389	63,764	28,973	-	92,737		TRAD
100656-010	*	NASA GODDARD SPACEFLIGHT CENTER	ZIMMERMAN, R.	32,376	4,352	-	535	37,263	20,201	-	57,464		TRAD
300498-010	*	VA INSTITUTE OF MARINE SCIENCE (VIMS)	ZIMMERMAN, R.	13,108	33	-	-	13,140	7,227	-	20,368		TRAD
				1,276,465	456,106	66,008	247,393	2,045,973	752,984	-	2,798,957	36.80%	
Physics													
100388-150	*	U.S. DEPARTMENT OF ENERGY	AMARYAN, M.	83,155	10,601	4,157	1,611	99,523	51,566	-	151,089		TRAD
100388-151	*	U.S. DEPARTMENT OF ENERGY	AMARYAN, M.	2,330	130	-	-	2,460	640	-	3,100		TRAD
300348-010	*	CATHOLIC UNIVERSITY (THE CATHOLIC UNIVERSITY OF AMER	AMARYAN, M.	-	327	8,210	-	8,536	173	-	8,709		TRAD
100652-010	*	NATIONAL SCIENCE FOUNDATION	ARETI, H.	-	364	-	29,204	29,568	200	-	29,768		TRAD
100392-030	*	U.S. DEPARTMENT OF ENERGY	BALITSKY, I.	16,270	2,588	-	1,968	20,826	9,995	-	30,820		TRAD
300510-010		OLD DOMINION UNIVERSITY	BRICENO, R.	5,546	-	-	-	5,546	3,050	-	8,596		TRAD
100388-150	*	U.S. DEPARTMENT OF ENERGY	BUELTMANN, S.	73,372	9,354	3,668	1,421	87,815	45,499	-	133,314		TRAD
100388-151	*	U.S. DEPARTMENT OF ENERGY	BUELTMANN, S.	2,330	130	-	-	2,460	640	-	3,100		TRAD
100652-010	*	NATIONAL SCIENCE FOUNDATION	BUELTMANN, S.	-	312	-	25,032	25,344	172	-	25,516		TRAD
100614-010	*	NATIONAL SCIENCE FOUNDATION	CIOVATI, G.	14,662	2,166	-	4,726	21,553	4,375	-	25,929		TRAD
100711-010	*	U.S. DEPARTMENT OF ENERGY	DE SILVA, P.	7,764	-	-	256	8,020	2,115	-	10,135		TRAD
100387-020	*	U.S. DEPARTMENT OF ENERGY	DELAYEN, J.	47,607	6,072	10,201	44,750	108,630	13,957	-	122,587		TRAD
100443-040		FERMI NATIONAL ACCELERATOR LABORATORY	DELAYEN, J.	-	-	-	171,814	171,814	44,672	-	216,486		TRAD
100492-010	*	NATIONAL SCIENCE FOUNDATION	DELAYEN, J.	18,180	6,050	22,576	21,273	68,079	12,842	-	80,922		TRAD
100614-010	*	NATIONAL SCIENCE FOUNDATION	DELAYEN, J.	10,996	1,624	-	3,544	16,165	3,281	-	19,446		TRAD
100703-010		FERMI NATIONAL ACCELERATOR LABORATORY	DELAYEN, J.	84,970	22,348	-	21,996	129,314	27,903	-	157,216		TRAD
100711-010	*	U.S. DEPARTMENT OF ENERGY	DELAYEN, J.	23,293	-	-	767	24,061	6,344	-	30,405		TRAD
100727-010		U.S. DEPARTMENT OF ENERGY	DELAYEN, J.	6,616	-	-	-	6,616	1,720	-	8,336		TRAD
300442-010	*	TEMPLE UNIVERSITY	DELAYEN, J.	13,583	6,091	-	3,141	22,815	10,820	-	33,635		TRAD
400343-010		SOUTHERN UNIVERSITIES RESEARCH ASSOC (SURA)	DELAYEN, J.	84,749	21,661	52,391	19,607	178,408	58,525	-	236,934		TRAD
100388-150	*	U.S. DEPARTMENT OF ENERGY	DODGE, G.	83,155	10,601	4,157	1,611	99,523	51,566	-	151,089		TRAD
100388-151	*	U.S. DEPARTMENT OF ENERGY	DODGE, G.	2,330	130	-	-	2,460	640	-	3,100		TRAD
100652-010	*	NATIONAL SCIENCE FOUNDATION	DODGE, G.	-	364	-	29,204	29,568	200	-	29,768		TRAD

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

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FOR FISCAL YEAR 2019

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100554-010	*	NATIONAL SCIENCE FOUNDATION	GODUNOV, A.	15,792	-	-	904	16,696	8,370	-	25,065		TRAD
100387-020	*	U.S. DEPARTMENT OF ENERGY	GUREVICH, A.	47,607	6,072	10,201	44,750	108,630	13,957	-	122,587		TRAD
100492-010	*	NATIONAL SCIENCE FOUNDATION	GUREVICH, A.	18,180	6,050	22,576	21,273	68,079	12,842	-	80,922		TRAD
100614-010	*	NATIONAL SCIENCE FOUNDATION	GUREVICH, A.	10,996	1,624	-	3,544	16,165	3,281	-	19,446		TRAD
100668-010		AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	GUREVICH, A.	10,220	6,096	22,912	-	39,228	8,974	-	48,201		TRAD
300442-010	*	TEMPLE UNIVERSITY	GUREVICH, A.	13,583	6,091	-	3,141	22,815	10,820	-	33,635		TRAD
100602-010		NATIONAL SCIENCE FOUNDATION	HAVEY, M.	59,043	14,348	-	15,915	89,306	40,365	-	129,671		TRAD
100532-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HE, J .	3,671	264	-	-	3,935	2,164	-	6,099		TRAD
100388-150	*	U.S. DEPARTMENT OF ENERGY	HYDE, C.	83,155	10,601	4,157	1,611	99,523	51,566	-	151,089		TRAD
100388-151	*	U.S. DEPARTMENT OF ENERGY	HYDE, C.	2,330	130	-	-	2,460	640	-	3,100		TRAD
100429-010		BROOKHAVEN NATIONAL LABORATORY	HYDE, C.	-	-	-	0	0	-	-	0		TRAD
100697-010		BROOKHAVEN NATIONAL LABORATORY	HYDE, C.	17,313	-	-	-	17,313	4,501	-	21,815		TRAD
400346-010	*	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	HYDE, C.	247,254	-	-	-	247,254	-	-	247,254		TRAD
400347-010		JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	HYDE, C.	687,482	34	-	-	687,516	-	-	687,516		TRAD
300348-010	*	CATHOLIC UNIVERSITY (THE CATHOLIC UNIVERSITY OF AMER	HYDE, C.	-	327	8,210	-	8,536	173	-	8,709		TRAD
100704-010		NATIONAL SCIENCE FOUNDATION	KRAFFT, G.	-	-	-	6,090	6,090	-	-	6,090		TRAD
100722-010		U.S. DEPARTMENT OF ENERGY	KRAFFT, G.	17,417	-	-	-	17,417	4,528	-	21,945		TRAD
400320-010		AMERICAN PHYSICAL SOCIETY (APS)	KRAFFT, G.	-	-	-	13,901	13,901	-	-	13,901		TRAD
600217-010		TRIUMF	KRAFFT, G.	-	-	-	4,372	4,372	-	-	4,372		TRAD
100388-150	*	U.S. DEPARTMENT OF ENERGY	KUHN, S.	83,155	10,601	4,157	1,611	99,523	51,566	-	151,089		TRAD
100388-151	*	U.S. DEPARTMENT OF ENERGY	KUHN, S.	2,330	130	-	-	2,460	640	-	3,100		TRAD
100392-030	*	U.S. DEPARTMENT OF ENERGY	RADYUSHKIN, A.	16,270	2,588	-	1,968	20,826	9,995	-	30,820		TRAD
100663-010		BROOKHAVEN NATIONAL LABORATORY	ROGERS, T.	12,516	34	-	-	12,551	3,263	-	15,814		TRAD
300444-010		OLD DOMINION UNIVERSITY	ROGERS, T.	76,321	15,756	-	4,310	96,388	50,643	-	147,031		TRAD
100392-030	*	U.S. DEPARTMENT OF ENERGY	SCHIAVILLA, R.	16,270	2,588	-	1,968	20,826	9,995	-	30,820		TRAD
100388-151	*	U.S. DEPARTMENT OF ENERGY	STEPANYAN, S.	32,622	1,822	-	-	34,444	8,955	-	43,400		TRAD
100554-010	*	NATIONAL SCIENCE FOUNDATION	TERZIC, B.	15,792	-	-	904	16,696	8,370	-	25,065		TRAD
300030-014	*	UNIVERSITY OF VIRGINIA	TERZIC, B.	701	490	-	60	1,251	-	-	1,251		TRAD
100392-030	*	U.S. DEPARTMENT OF ENERGY	VAN ORDEN, J.	16,270	2,588	-	1,968	20,826	9,995	-	30,820		TRAD
100535-010		U.S. DEPARTMENT OF ENERGY	VUSKOVIC, L.	36,461	14,899	-	-	51,360	27,221	-	78,581		TRAD
100388-150	*	U.S. DEPARTMENT OF ENERGY	WEINSTEIN, L.	83,155	10,601	4,157	1,611	99,523	51,566	-	151,089		TRAD
100388-151	*	U.S. DEPARTMENT OF ENERGY	WEINSTEIN, L.	2,330	130	-	-	2,460	640	-	3,100		TRAD
400374-010		JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	WEINSTEIN, L.	-	-	-	11,000	11,000	-	-	11,000		TRAD
				2,209,144	214,776	181,729	522,826	3,128,475	745,921	-	3,874,396	23.84%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

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PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
Psychology													
100619-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	BARRACO, C.	5,095	873	-	-	5,967	3,282	-	9,249		TRAD
500329-010		VR REHAB, INC.	BLISS, J.	18,818	-	-	-	18,818	10,350	-	29,168		TRAD
500330-020		VR REHAB, INC.	BLISS, J.	4,878	-	-	-	4,878	3,073	-	7,951		TRAD
500331-020		VR REHAB, INC.	BLISS, J.	4,878	-	-	-	4,878	3,073	-	7,951		TRAD
100521-010	*	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	BLISS, J.	-	(1,661)	-	-	(1,661)	(432)	-	(2,093)		TRAD
100626-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	BRAITMAN, A.	119,938	18,930	-	-	138,868	11,109	-	149,978		TRAD
100619-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	BRAITMAN, A.	5,095	873	-	-	5,967	3,282	-	9,249		TRAD
100798-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	BRAITMAN, A.	5,026	64	-	-	5,089	2,799	-	7,888		TRAD
100690-010		NATIONAL SCIENCE FOUNDATION	CHEN, J.	12,756	8,379	-	-	21,135	11,624	-	32,759		TRAD
300508-010		OLD DOMINION UNIVERSITY	CIGULAROV, K.	-	1,293	-	1,207	2,500	-	-	2,500		TRAD
100738-010	*	NATIONAL SCIENCE FOUNDATION	CIGULAROV, K.	4,237	789	-	10,008	15,034	2,764	-	17,798		TRAD
100551-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HENSON, M.	42,520	3,822	-	111,644	157,986	24,561	-	182,547		TRAD
100551-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HERON, K .	2,362	212	-	6,202	8,777	1,365	-	10,141		TRAD
100619-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HERON, K .	18,195	3,117	-	-	21,312	11,722	-	33,033		TRAD
100798-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	HERON, K.	20,103	254	-	-	20,357	11,196	-	31,553		TRAD
400353-010		AMERICAN PSYCHOLOGICAL FOUNDATION	HU, X.	1,205	-	-	-	1,205	-	-	1,205		TRAD
100521-010	*	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	HU, X.	-	(1,661)	-	-	(1,661)	(432)	-	(2,093)		TRAD
400396-010		AMERICAN PSYCHOLOGICAL FOUNDATION	JUDAH, M	-	2,152	-	591	2,744	-	-	2,744		TRAD
100726-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	JUDAH, M.	7,377	1,294	-	-	8,670	2,775	-	11,445		TRAD
100551-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	KELLEY, M.	2,362	212	-	6,202	8,777	1,365	-	10,141		TRAD
100619-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	KELLEY, M.	2,911	499	-	-	3,410	1,875	-	5,285		TRAD
100619-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	LEWIS, R.	36,389	6,234	-	-	42,624	23,443	-	66,067		TRAD
100798-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	LEWIS, R.	8,376	106	-	-	8,482	4,665	-	13,147		TRAD
100570-010		NATIONAL SCIENCE FOUNDATION	MAJOR, D.	7,396	1,717	-	-	9,112	4,830	-	13,942		TRAD
100673-010	*	NATIONAL SCIENCE FOUNDATION	MAJOR, D.	8,114	258	-	4,613	12,986	4,605	-	17,590		TRAD
300489-010		UNIVERSITY OF COLORADO	PAULSON, J.	4,470	-	-	-	4,470	2,459	-	6,929		TRAD
100619-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	WINSTEAD, B.	5,095	873	-	-	5,967	3,282	-	9,249		TRAD
100521-010	*	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	YAMANI, Y.	-	(1,661)	-	-	(1,661)	(432)	-	(2,093)		TRAD
200236-010	*	VA DEPARTMENT OF MOTOR VEHICLES	YAMANI, Y.	-	-	-	-	-	(0)	-	(0)		TRAD
200256-010	*	VA DEPARTMENT OF MOTOR VEHICLES	YAMANI, Y.	8,287	3,400	-	-	11,687	3,039	-	14,726		TRAD
200281-010	*	VA DEPARTMENT OF MOTOR VEHICLES	YAMANI, Y.	13,803	7,078	-	-	20,882	5,429	-	26,311		TRAD
				369,684	57,446	-	140,467	567,597	156,670	-	724,267	27.60%	
TOTAL SCIENCES				**$ 8,023,602**	**$ 2,033,564**	**$ 584,180**	**$ 1,728,216**	**$ 12,369,563**	**$ 3,461,059**	**$ -**	**$ 15,830,622**	**27.98%**	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES				
PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
OFFICE OF RESEARCH AND OTHER ACTIVITY												
Frank Reidy Research Center for Bioelectrics												
500314-010	PULSE CENTERS	BEEBE, S.	-	159	-	63	221	122	-	343		CBE
300427-010	* OLD DOMINION UNIVERSITY	BEEBE, S.	37,001	431	-	5,000	42,432	11,230	-	53,662		CBE
300427-910	* PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	22,153	21,072	10,916	1,312	55,453	12,967	-	68,420		CBE
300455-020	* UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER	BEEBE, S.	-	168	-	-	168	-	-	168		CBE
500226-013	* PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	15,457	3,050	-	-	18,507	10,179	-	28,685		CBE
600186-010	* UNIVERSITY OF SOUTHAMPTON	CHEN, H.	28,533	6,327	1,624	-	36,484	18,475	-	54,959		CBE
100517-010	* U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	GUO, S.	9,960	4,583	-	-	14,543	7,708	-	22,251		CBE
100732-010	* U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	GUO, S.	26,306	14,262	-	-	40,568	22,312	-	62,880		CBE
300427-010	* OLD DOMINION UNIVERSITY	GUO, S.	29,241	127	-	-	29,368	8,810	-	38,179		CBE
300427-010	* OLD DOMINION UNIVERSITY	GUO, S.	7,760	304	-	5,000	13,064	2,419	-	15,483		CBE
300427-910	* PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	1,604	5,764	-	-	7,368	2,210	-	9,579		CBE
500226-009	* PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	479	1,925	-	-	2,405	1,323	-	3,727		CBE
500226-011	* PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	3,326	2,312	-	-	5,637	3,101	-	8,738		CBE
500226-013	* PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	15,457	3,050	-	-	18,507	10,179	-	28,685		CBE
500226-010	* PULSE BIOSCIENCES (ELECTROBLATE)	MURATORI, C.	15,315	2,452	-	-	17,767	9,772	-	27,539		CBE
500226-015	* PULSE BIOSCIENCES (ELECTROBLATE)	MURATORI, C.	77,991	21,847	-	-	99,839	54,911	-	154,750		CBE
500226-017	* PULSE BIOSCIENCES (ELECTROBLATE)	MURATORI, C.	7,873	3,024	-	-	10,897	5,993	-	16,890		CBE
100548-010	* U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	PAKHOMOVA, O.	3,287	368	-	-	3,655	2,010	-	5,665		CBE
300345-012	OLD DOMINION UNIVERSITY	PAKHOMOVA, O.	74,552	40,269	-	-	114,821	63,152	-	177,973		CBE
300345-013	* OLD DOMINION UNIVERSITY	PAKHOMOVA, O.	2,363	489	-	-	2,852	1,568	-	4,420		CBE
500226-010	* PULSE BIOSCIENCES (ELECTROBLATE)	PAKHOMOVA, O.	6,564	1,051	-	-	7,614	4,188	-	11,802		CBE
500226-015	* PULSE BIOSCIENCES (ELECTROBLATE)	PAKHOMOVA, O.	19,498	5,462	-	-	24,960	13,728	-	38,687		CBE
500366-010	* OLYMPUS CORPORATION OF THE AMERICAS	PAKHOMOVA, O.	-	(71)	-	1,174	1,103	(81)	-	1,022		CBE
100548-010	* U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEA	SEMENOV, I.	6,574	736	-	-	7,310	4,020	-	11,330		CBE
300345-013	* OLD DOMINION UNIVERSITY	SEMENOV, I.	1,182	244	-	-	1,426	784	-	2,210		CBE
400393-010	BREEDEN-ADAMS FOUNDATION	STACEY, M.	-	4,506	-	-	4,506	-	-	4,506		CBE
100474-010	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	VERNIER, P.	20,534	1,815	-	-	22,349	11,845	-	34,195		CBE
300345-013	* OLD DOMINION UNIVERSITY	VERNIER, P.	40,322	6,774	-	-	47,096	25,903	-	72,999		CBE
500226-009	* PULSE BIOSCIENCES (ELECTROBLATE)	VERNIER, T.	479	1,925	-	-	2,405	1,323	-	3,727		CBE
			473,810	154,424	12,540	12,549	653,323	310,152	-	963,475	47.47%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES					
PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
Computation Modeling & Simulation Engineering - VMASC													
100531-001	*	NAVAL SEA SYSTEMS COMMAND	BARRACO, A.	(1)	-	-	-	(1)	(1)	-	(1)		VMASC
600201-010	*	UNIVERSITY OF AGDER	BARRACO, A.	16,455	5	-	-	16,459	9,053	-	25,512		VMASC
300492-010	*	OLD DOMINION UNIVERSITY	BEHR, J.	8,735	1,155	-	-	9,890	-	-	9,890		VMASC
500341-001	*	APPLIED RESEARCH ASSOCIATES, INC.	CROLL, M.	(6)	-	-	0	(6)	(3)	-	(9)		VMASC
500342-001	*	WR SYSTEMS, LTD.	CROLL, M.	6,598	-	-	877	7,475	4,859	-	12,334		VMASC
500362-010	*	G2 OPS, INC.	CROLL, M.	(0)	-	-	0	(0)	(0)	-	(0)		VMASC
100710-010	*	NAVAL SPEC WARFARE DEVELOPMENT GROUP	CVIJETIC, B.	-	-	-	-	-	(0)	-	(0)		VMASC
500376-010	*	CAMBER CORPORATION	CVIJETIC, B.	8,947	-	-	53	9,000	5,850	-	14,850		VMASC
500391-010	*	CAMBER CORPORATION	CVIJETIC, B.	15,687	-	-	-	15,687	10,197	-	25,884		VMASC
500354-010		CAMBER CORPORATION	DIALLO, S.	-	-	-	0	0	0	-	1		VMASC
500388-010		SIRIUS-BETA CORPORATION	DIALLO, S.	2,961	-	-	265	3,226	1,774	-	5,000		VMASC
500395-010		KADSCI	DIALLO, S.	25,001	-	-	-	25,001	16,250	-	41,251		VMASC
500400-010		UNITED NETWORK FOR ORGAN SHARING (UNOS)	DIALLO, S.	15,190	319	-	-	15,509	8,530	-	24,039		VMASC
300490-010	*	OLD DOMINION UNIVERSITY	DIALLO, S.	19,016	2,679	-	-	21,695	-	-	21,695		VMASC
400351-010	*	CENTER FOR MIND AND CULTURE	DIALLO, S.	2,248	985	-	-	3,233	485	-	3,718		VMASC
500341-001	*	APPLIED RESEARCH ASSOCIATES, INC.	DIALLO, S.	4,600	-	-	-	4,600	2,530	-	7,131		VMASC
500375-001	*	CAMBER CORPORATION	DIALLO, S.	41,526	-	-	-	41,526	26,992	-	68,518		VMASC
500376-010	*	CAMBER CORPORATION	DIALLO, S.	8,947	-	-	53	9,000	5,850	-	14,850		VMASC
500391-010	*	CAMBER CORPORATION	DIALLO, S.	15,687	-	-	-	15,687	10,197	-	25,884		VMASC
600201-010	*	UNIVERSITY OF AGDER	DIALLO, S.	16,455	5	-	-	16,459	9,053	-	25,512		VMASC
100800-010	*	NAVAL AIR WARFARE CENTER TSD	EZELL, B.	149	22	-	-	171	111	-	282		VMASC
200245-010		VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	EZELL, B.	-	(2,848)	-	-	(2,848)	(1,566)	-	(4,415)		VMASC
200252-010	*	VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	EZELL, B.	(0)	-	-	-	(0)	(0)	-	(0)		VMASC
200270-010		VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	EZELL, B.	88,296	27,365	-	37,435	153,096	69,192	-	222,288		VMASC
200292-010		VA PORT AUTHORITY	EZELL, B.	2,764	804	-	-	3,569	928	-	4,497		VMASC
200294-010	*	VA PORT AUTHORITY	EZELL, B.	7,800	1,839	-	-	9,639	2,506	-	12,145		VMASC
200297-010		VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	EZELL, B.	14,028	1,608	-	-	15,636	8,600	-	24,236		VMASC
400328-010	*	BATTELLE CORPORATION	EZELL, B.	2,426	-	-	-	2,426	1,335	-	3,761		VMASC
400364-010		MITRE CORPORATION	EZELL, B.	7,259	-	-	(1)	7,258	3,992	-	11,250		VMASC
400387-010		FOODBANK OF SOUTHEAST VA AND EASTERN SHORE	EZELL, B.	-	1,470	-	-	1,470	382	-	1,852		VMASC
500341-001	*	APPLIED RESEARCH ASSOCIATES, INC.	EZELL, B.	4,600	-	-	-	4,600	2,530	-	7,131		VMASC
500341-002	*	APPLIED RESEARCH ASSOCIATES, INC.	EZELL, B.	-	-	-	0	0	2	-	2		VMASC
500341-003	*	APPLIED RESEARCH ASSOCIATES, INC.	EZELL, B.	3,409	-	-	-	3,409	1,875	-	5,284		VMASC
500362-010	*	G2 OPS, INC.	EZELL, B.	(0)	-	-	0	(0)	(0)	-	(0)		VMASC
500367-010		LPR, INC.	EZELL, B.	444	-	-	-	444	116	-	560		VMASC
500390-010	*	ALEX - ALTERNATIVE EXPERTS, LLC	EZELL, B.	20,612	69	-	-	20,681	13,443	-	34,123		VMASC
500401-010	*	CHESAPEAKE REGIONAL HEALTHCARE	EZELL, B.	8,787	2,004	-	-	10,791	2,806	-	13,597		VMASC
500362-010	*	G2 OPS, INC.	FLANAGAN, D.	(0)	-	-	0	(0)	(0)	-	(0)		VMASC
200244-011	*	VA PORT AUTHORITY	FOYTIK, P.	-	-	-	-	-	0	-	0		VMASC
300445-010	*	OLD DOMINION UNIVERSITY	FRYDENLUND, E.	371	3,565	-	-	3,936	-	-	3,936		VMASC

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES					
PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
100710-010	*	NAVAL SPEC WARFARE DEVELOPMENT GROUP	GARCIA, H.	-	-	-	-	-	(0)	-	(0)		VMASC
500391-010	*	CAMBER CORPORATION	GAY, B.	15,687	-	-	-	15,687	10,197	-	25,884		VMASC
300490-010	*	OLD DOMINION UNIVERSITY	GILES, B.	26,623	3,750	-	-	30,373	-	-	30,373		VMASC
100790-010	*	NAVAL SEA SYSTEMS COMMAND	GORE, R.	15,979	1,757	-	1,020	18,756	11,528	-	30,284		VMASC
300446-010	*	OLD DOMINION UNIVERSITY	GORE, R.	(423)	-	-	-	(423)	-	-	(423)		VMASC
500375-001	*	CAMBER CORPORATION	GORE, R.	41,526	-	-	-	41,526	26,992	-	68,518		VMASC
500376-010	*	CAMBER CORPORATION	GORE, R.	9,218	-	-	55	9,273	6,027	-	15,300		VMASC
500391-010	*	CAMBER CORPORATION	GORE, R.	15,687	-	-	-	15,687	10,197	-	25,884		VMASC
600201-010	*	UNIVERSITY OF AGDER	GORE, R.	21,940	6	-	-	21,946	12,070	-	34,016		VMASC
200252-010	*	VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	GORE, R.	(0)	-	-	-	(0)	(0)	-	(0)		VMASC
400328-010	*	BATTELLE CORPORATION	GORE, R.	1,618	-	-	-	1,618	890	-	2,507		VMASC
500362-010	*	G2 OPS, INC.	GORE, R.	(0)	-	-	0	(0)	(0)	-	(0)		VMASC
300490-010	*	OLD DOMINION UNIVERSITY	JORDAN, C.	22,820	3,214	-	-	26,034	-	-	26,034		VMASC
100790-010	*	NAVAL SEA SYSTEMS COMMAND	LYNCH, C.	15,979	1,757	-	1,020	18,756	11,528	-	30,284		VMASC
100800-010	*	NAVAL AIR WARFARE CENTER TSD	LYNCH, C.	2,611	376	-	-	2,987	1,941	-	4,928		VMASC
400351-010	*	CENTER FOR MIND AND CULTURE	LYNCH, C.	2,248	985	-	-	3,233	485	-	3,718		VMASC
100534-010		OFFICE OF NAVAL RESEARCH	MICHAELI, J.	5,329	-	-	-	5,329	2,824	-	8,153		VMASC
100588-010	*	OFFICE OF NAVAL RESEARCH	MICHAELI, J.	27,496	356	-	4,824	32,675	18,103	-	50,779		VMASC
100725-010		OFFICE OF NAVAL RESEARCH	MICHAELI, J.	35,378	-	-	3,414	38,792	19,458	-	58,250		VMASC
300463-010		OLD DOMINION UNIVERSITY	MICHAELI, J.	394,958	61,765	-	145,000	601,723	-	-	601,723		VMASC
300328-010		NORFOLK STATE UNIVERSITY	PADILLA, J.	106,098	1,719	-	8,330	116,148	57,143	-	173,291		VMASC
300445-010	*	OLD DOMINION UNIVERSITY	PADILLA, J.	371	3,565	-	-	3,936	-	-	3,936		VMASC
500342-001	*	WR SYSTEMS, LTD.	PAPELIS, Y,	39,589	-	-	5,262	44,850	29,153	-	74,004		VMASC
100521-010	*	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	PAPELIS, Y.	-	(554)	-	-	(554)	(144)	-	(698)		VMASC
100601-010	*	U.S. DEPARTMENT OF EDUCATION	PAPELIS, Y.	61,305	13,556	-	10,815	85,675	19,464	-	105,139		VMASC
300518-010	*	OLD DOMINION UNIVERSITY	PAPELIS, Y.	10,372	-	-	-	10,372	415	-	10,787		VMASC
500341-001	*	APPLIED RESEARCH ASSOCIATES, INC.	PAPELIS, Y.	(37)	-	-	0	(37)	(20)	-	(57)		VMASC
500350-010		SIMIS, INC.	PAPELIS, Y.	-	27,063	7,202	-	34,265	-	-	34,265		VMASC
300446-010	*	OLD DOMINION UNIVERSITY	PARODI, V.	(634)	-	-	-	(634)	-	-	(634)		VMASC
300490-010	*	OLD DOMINION UNIVERSITY	PARODI, V.	7,607	1,071	-	-	8,678	-	-	8,678		VMASC
500368-010		PREVAILANCE, INC.	RECHOWICZ, K	20,532	-	-	-	20,532	13,346	-	33,878		VMASC
500368-020		PREVAILANCE, INC.	RECHOWICZ, K	11,591	-	-	-	11,591	7,534	-	19,125		VMASC
100710-010	*	NAVAL SPEC WARFARE DEVELOPMENT GROUP	RECHOWICZ, K.	-	-	-	-	-	(0)	-	(0)		VMASC
100531-001	*	NAVAL SEA SYSTEMS COMMAND	ROBINSON, R.	(1)	-	-	-	(1)	(1)	-	(1)		VMASC
200244-011	*	VA PORT AUTHORITY	ROBINSON, R.	-	-	-	-	-	0	-	0		VMASC
300258-010	*	UNIVERSITY OF MARYLAND	ROBINSON, R.	-	623	-	-	623	330	-	953		VMASC
300462-010	*	OLD DOMINION UNIVERSITY	ROBINSON, R.	134,472	38,140	-	369,045	541,657	-	-	541,657		VMASC
500391-010	*	CAMBER CORPORATION	SHULL, J.	15,687	-	-	-	15,687	10,197	-	25,884		VMASC
100629-010		NORFOLK NAVAL SHIPYARD	WEISEL, E.	-	17,632	-	-	17,632	5,642	-	23,274		VMASC
100634-010		NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	4,819	-	-	718,476	723,295	1,735	-	725,030		VMASC
100642-010		NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	-	-	-	(116)	(116)	-	-	(116)		VMASC
100643-010		NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	-	-	-	-	-	(0)	-	(0)		VMASC
100647-010		NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	4,819	55,984	-	-	60,803	21,889	-	82,692		VMASC
400193-000		NONE	WEISEL, E.	2,094	46,058	-	89	48,241	-	-	48,241		VMASC
500339-010		OCEAN BAY, LLC	WEISEL, E.	45,099	1,313	-	-	46,413	25,527	-	71,939		VMASC
500379-010		D'ANGELO TECHNOLOGIES LLC	WEISEL, E.	21,376	-	-	-	21,376	13,894	-	35,271		VMASC
				1,508,824	321,183	7,202	1,305,917	3,143,126	556,211	-	3,699,337	17.70%	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES					
PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
The Graduate School													
200236-010	*	VA DEPARTMENT OF MOTOR VEHICLES	PORTER, B.	-	-	-	-	-	(0)	-	(0)		TRAD
200256-010	*	VA DEPARTMENT OF MOTOR VEHICLES	PORTER, B.	8,287	3,400	-	-	11,687	3,039	-	14,726		TRAD
200257-010	*	VA DEPARTMENT OF MOTOR VEHICLES	PORTER, B.	12,163	1,821	-	356	14,340	3,636	-	17,976		TRAD
200281-010	*	VA DEPARTMENT OF MOTOR VEHICLES	PORTER, B.	13,803	7,078	-	-	20,882	5,429	-	26,311		TRAD
200282-010	*	VA DEPARTMENT OF MOTOR VEHICLES	PORTER, B.	13,223	4,314	-	-	17,537	4,560	-	22,097		TRAD
				47,476	16,613	-	356	64,446	16,663	-	81,109	25.86%	
Institute for Innovation & Enterpreneurship													
200271-010		VA PORT AUTHORITY	BRINKER, J.	527	901	-	270	1,699	442	-	2,141		TRAD
400387-010		FOODBANK OF SOUTHEAST VA AND EASTERN SHORE	BRINKER, J.	9,712	-	-	-	9,712	2,525	-	12,237		TRAD
500264-020		GENEDGE ALLIANCE - (FORMERLY PHILPOTT MANUFACTURIN(	BRINKER, J.	-	(135)	-	-	(135)	-	-	(135)		TRAD
500264-030		GENEDGE ALLIANCE - (FORMERLY PHILPOTT MANUFACTURIN(	BRINKER, J.	52,295	135	-	-	52,431	-	-	52,431		TRAD
500313-010		GENEDGE ALLIANCE - (FORMERLY PHILPOTT MANUFACTURIN(	BRINKER, J.	-	-	-	1,840	1,840	-	-	1,840		TRAD
500325-020		PLASSER AMERICAN CORPORATION	BRINKER, J.	(16,656)	14	-	996	(15,646)	262	-	(15,384)		TRAD
500351-010		TAMESHIA JEFFERS	BRINKER, J.	-	-	-	234	234	60	-	294		TRAD
500355-010		LPR, INC.	BRINKER, J.	(177)	1,634	-	86	1,543	401	-	1,944		TRAD
500356-010		ARDX	BRINKER, J.	(840)	-	-	-	(840)	(218)	-	(1,059)		TRAD
500358-010		PLASSER AMERICAN CORPORATION	BRINKER, J.	199	-	-	2,727	2,927	761	-	3,688		TRAD
500360-010		SEACOAST ELECTRIC COMPANY, INC.	BRINKER, J.	-	-	-	0	0	0	-	1		TRAD
500363-010		LPR, INC.	BRINKER, J.	134	4,007	-	-	4,140	1,076	-	5,216		TRAD
500365-010		TABET MANUFACTURING CO.	BRINKER, J.	170	3,095	-	-	3,264	849	-	4,113		TRAD
500367-010		LPR, INC.	BRINKER, J.	2,073	1,776	-	-	3,850	1,001	-	4,851		TRAD
500373-010		PLASSER AMERICAN CORPORATION	BRINKER, J.	21,448	172	-	-	21,620	5,621	-	27,241		TRAD
500383-010		CHESAPEAKE REGIONAL HEALTHCARE	BRINKER, J.	8,745	1,918	-	-	10,663	2,772	-	13,435		TRAD
500386-010		LIFENET	BRINKER, J.	11,824	4,895	-	-	16,719	4,347	-	21,066		TRAD
500392-010		LPR, INC.	BRINKER, J.	2,125	-	-	-	2,125	552	-	2,677		TRAD
600216-010		NITTO, INC.	BRINKER, J.	-	-	-	1,397	1,397	363	-	1,760		TRAD
500325-020		PLASSER AMERICAN CORPORATION	EZELL, B.	-	-	-	16,656	16,656	-	-	16,656		TRAD
500332-010		DAVIS INTERIORS LTD.	EZELL, B.	-	-	-	96	96	26	-	122		TRAD
500356-010		ARDX	EZELL, B.	-	-	-	-	-	(1)	-	(1)		TRAD
500363-010		LPR, INC.	EZELL, B.	-	-	-	441	441	115	-	557		TRAD
500364-010		PLASSER AMERICAN CORPORATION	EZELL, B.	-	-	-	1,602	1,602	417	-	2,019		TRAD
500373-010		PLASSER AMERICAN CORPORATION	EZELL, B.	-	-	-	999	999	260	-	1,259		TRAD
500383-010		CHESAPEAKE REGIONAL HEALTHCARE	EZELL, B.	-	-	-	1,639	1,639	426	-	2,065		TRAD
500386-010		LIFENET	EZELL, B.	-	-	-	3,122	3,122	812	-	3,934		TRAD
100694-010		SMALL BUSINESS ADMINISTRATION	FILER, L.	46,717	7,634	-	(0)	54,350	14,131	-	68,481		TRAD
100694-020		SMALL BUSINESS ADMINISTRATION	FILER, L.	65,624	7,115	-	-	72,739	18,912	-	91,651		TRAD
100713-010	*	SMALL BUSINESS ADMINISTRATION	FILER, L.	105,726	11,571	-	-	117,297	30,497	-	147,794		TRAD
100713-020		SMALL BUSINESS ADMINISTRATION	FILER, L.	25,157	1,890	-	-	27,047	-	-	27,047		TRAD
200251-010		CRATER PLANNING DISTRICT COMMISSION	FILER, L.	729	(6)	-	-	723	188	-	911		TRAD
200251-011		CRATER PLANNING DISTRICT COMMISSION	FILER, L.	6,749	957	-	-	7,706	2,003	-	9,709		TRAD
200276-010		CRATER PLANNING DISTRICT COMMISSION	FILER, L.	88,555	8,939	-	-	97,494	25,348	-	122,842		TRAD
200276-011		CRATER PLANNING DISTRICT COMMISSION	FILER, L.	17,262	2,591	-	-	19,853	5,162	-	25,015		TRAD
200280-010		GOVERNOR'S OFFICE	FILER, L.	94,100	7,304	-	-	101,404	-	-	101,404		TRAD
400337-010		REINVENT HAMPTON ROADS	FILER, L.	-	-	-	5,590	5,590	-	-	5,590		TRAD
400377-010		COASTAL COMMUNITY RESILIENCE, INC.	FILER, L.	21,665	-	-	-	21,665	-	-	21,665		TRAD
400409-010		REINVENT HAMPTON ROADS	FILER, L.	17,147	-	-	-	17,147	-	-	17,147		TRAD

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES					
PROJECT NUMBER		SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
100415-010		SMALL BUSINESS ADMINISTRATION	KASZUBOWSKI, M.	(8,784)	-	-	-	(8,784)	(1,757)	-	(10,541)		TRAD
200204-020		GOVERNOR'S OFFICE	KASZUBOWSKI, M.	85,825	121,175	-	-	207,000	-	-	207,000		TRAD
300420-020		VA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	KASZUBOWSKI, M.	-	12,000	-	-	12,000	3,000	-	15,000		TRAD
300420-030		VA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	KASZUBOWSKI, M.	-	8,873	-	-	8,873	2,218	-	11,092		TRAD
100713-010	*	SMALL BUSINESS ADMINISTRATION	SAGESTER, C.	105,726	11,571	-	-	117,297	30,497	-	147,794		TRAD
				763,774	220,025	-	37,697	1,021,496	153,071	-	1,174,567	14.99%	
Other Miscellaneous Units - Cybersecurity													
100706-010	*	NATIONAL SECURITY AGENCY	DRAPER, D.	3,959	2,915	-	-	6,874	3,781	-	10,655		CYBER
100675-010		NATIONAL SCIENCE FOUNDATION	PAYNE, B.	65,430	7,445	-	56,715	129,590	40,081	-	169,672		CYBER
100709-010	*	NATIONAL SCIENCE FOUNDATION	PAYNE, B.	5,505	1,876	-	15,944	23,325	4,059	-	27,384		CYBER
100745-010	*	NATIONAL SCIENCE FOUNDATION	PAYNE, B.	4,250	300	-	2,236	6,787	2,503	-	9,290		CYBER
				79,145	12,536	-	74,896	166,577	50,424	-	217,001	30.27%	
Other Miscellaneous Units													
100726-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	BADGER, N.	7,377	1,294	-	-	8,670	2,775	-	11,445		TRAD
300411-010	*	OLD DOMINION UNIVERSITY	DRAPER, D.	-	18	-	660	678	-	-	678		TRAD
500390-010	*	ALEX - ALTERNATIVE EXPERTS, LLC	DRAPER, D.	30,917	104	-	-	31,021	20,164	-	51,185		TRAD
400370-010	*	ARTS MIDWEST	FOWLER, G.	436	1,944	-	-	2,381	619	-	3,000		TRAD
100726-010	*	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HOLLEY, A.	3,688	647	-	-	4,335	1,387	-	5,722		TRAD
300350-030		OLD DOMINION UNIVERSITY	HUCKLESS, M.	2,205	-	-	-	2,205	-	-	2,205		TRAD
300459-010		OLD DOMINION UNIVERSITY	HUCKLESS, M.	2,785	-	-	-	2,785	-	-	2,785		TRAD
300434-010		OLD DOMINION UNIVERSITY	LOVE, L.	282,272	9,320	-	48,925	340,518	23,327	-	363,845		TRAD
300411-010	*	OLD DOMINION UNIVERSITY	MAYES, N.	-	18	-	660	678	-	-	678		TRAD
100682-010	*	U.S. FISH AND WILDLIFE SERVICES	MCLEOD, G.	5,898	366	-	-	6,263	1,628	-	7,892		TRAD
300030-014	*	UNIVERSITY OF VIRGINIA	MCLEOD, G.	701	490	-	60	1,251	-	-	1,251		TRAD
500336-010	*	SCIENCE SYSTEMS & APPLICATIONS, INC.	MCLEOD, G.	-	-	-	0	0	-	-	0		TRAD
300411-010	*	OLD DOMINION UNIVERSITY	PAYNE, B.	-	19	-	680	699	-	-	699		TRAD
100723-010	*	NATIONAL SCIENCE FOUNDATION	PURWANTO, W.	12,978	-	-	1,201	14,179	7,138	-	21,317		TRAD
400276-010	*	BLUE MOON FUND	STEINHILBER, E.	-	2,859	-	-	2,859	429	-	3,288		TRAD
300051-060		OLD DOMINION UNIVERSITY	STUDIVANT, P.	-	6	-	-	6	1	-	7		TRAD
300051-070		OLD DOMINION UNIVERSITY	STUDIVANT, P.	60,516	3,219	-	-	63,736	5,099	-	68,834		TRAD
300051-080		OLD DOMINION UNIVERSITY	STUDIVANT, P.	209,973	12,706	-	29,167	251,845	17,814	-	269,660		TRAD
100538-010	*	OFFICE OF NAVAL RESEARCH	WATERS, S.	8,393	1,074	-	-	9,466	5,207	-	14,673		TRAD
200266-010		VA DEPARTMENT OF CRIMINAL JUSTICE SERVICES	WIMBROUGH, A.	-	2,653	-	-	2,653	849	-	3,501		TRAD
				628,139	36,737	-	81,352	746,229	86,436	-	832,665	11.58%	
TOTAL UNIVERSITY ACTIVITY				**$ 3,501,168**	**$ 761,518**	**$ 19,742**	**$ 1,512,768**	**$ 5,795,196**	**$ 1,172,958**	**$ -**	**$ 6,968,154**	**20.24%**	
GRAND TOTAL				**$ 21,118,493**	**$ 5,579,623**	**$ 1,927,345**	**$ 7,494,551**	**$ 36,120,011**	**$ 8,632,775**	**$ -**	**$ 44,752,787**	**23.90%**	

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION

SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2019

			PROJECT DIRECT COST					PROJECT IDC AND FEES					
PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	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
AFFILIATED ACTIVITY												
Virginia Space Grant Consortium												
100607-010	NATIONAL SCIENCE FOUNDATION	CARTER, C.	40,558	76,617	-	159,961	277,136	30,466	-	307,602		VSGC
200268-010	GAR-FIELD HIGH SCHOOL	CARTER, C.	9,687	2,073	-	84	11,844	-	-	11,844		VSGC
500323-010	MIDLAND GIS SOLUTIONS	CARTER, C.	5,703	-	-	7,730	13,433	1,483	-	14,916		VSGC
100419-010	FEDERAL AVIATION ADMINISTRATION	SANDY, M.	(0)	-	-	-	(0)	-	-	(0)		VSGC
100522-010	LANGLEY RESEARCH CENTER	SANDY, M.	15,050	59,542	-	-	74,592	19,394	-	93,986		VSGC
100527-010	NASA GODDARD SPACEFLIGHT CENTER	SANDY, M.	273,749	29,255	-	309,904	612,908	78,781	-	691,689		VSGC
100573-010	NASA/HEADQUARTERS	SANDY, M.	0	4,902	-	2,048	6,950	1,275	-	8,225		VSGC
100595-010	* NASA GODDARD SPACEFLIGHT CENTER	SANDY, M.	-	3,149	-	42,268	45,417	819	-	46,235		VSGC
100595-011	* NASA GODDARD SPACEFLIGHT CENTER	SANDY, M.	-	3,404	-	-	3,404	-	-	3,404		VSGC
200005-010	STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	SANDY, M.	229,679	82,506	-	141,808	453,994	-	-	453,994		VSGC
200005-011	STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	SANDY, M.	39,913	24,364	-	60,426	124,703	-	-	124,703		VSGC
200009-010	STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	SANDY, M.	-	-	-	168,008	168,008	-	-	168,008		VSGC
200009-020	STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	SANDY, M.	5,581	6,786	-	77,086	89,453	-	-	89,453		VSGC
200278-010	STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	SANDY, M.	5,602	562	-	12,593	18,757	-	-	18,757		VSGC
300030-010	UNIVERSITY OF VIRGINIA	SANDY, M.	62,018	61,680	-	108,391	232,089	-	-	232,089		VSGC
300040-010	VA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	SANDY, M.	244,041	21,432	-	6,172	271,645	-	-	271,645		VSGC
300125-010	OLD DOMINION UNIVERSITY	SANDY, M.	128,962	118,258	-	48,960	296,181	-	-	296,181		VSGC
300342-010	HAMPTON UNIVERSITY	SANDY, M.	27,551	20,514	-	-	48,064	12,497	-	60,561		VSGC
300419-010	VIRGINIA COMMUNITY COLLEGE SYSTEM	SANDY, M.	-	196	-	66,931	67,126	-	-	67,126		VSGC
300423-020	OLD DOMINION UNIVERSITY	SANDY, M.	-	-	-	(100)	(100)	-	-	(100)		VSGC
300462-011	OLD DOMINION UNIVERSITY	SANDY, M.	15,391	-	-	40,627	56,019	-	-	56,019		VSGC
300462-021	OLD DOMINION UNIVERSITY	SANDY, M.	-	-	-	2,980	2,980	-	-	2,980		VSGC
400204-010	THE NATIONAL ACADEMIES	SANDY, M.	190,421	43,507	-	162,403	396,331	60,821	-	457,152		VSGC
400367-010	NATIONAL DEFENSE INDUSTRIAL ASSOCATION (NDIA)	SANDY, M.	5,092	2,643	-	-	7,735	2,011	-	9,746		VSGC
			1,299,000	561,391	-	1,418,281	3,278,671	207,546	-	3,486,217	6.33%	
Virginia Tidewater Consortium for Higher Education												
100618-010	U.S. DEPARTMENT OF EDUCATION	DOTOLO, L.	423,479	78,482	-	-	501,961	38,752	-	540,713		TRAD
400252-030	OPPORTUNITY, INC.	DOTOLO, L.	910	157	-	1,131	2,197	107	-	2,304		TRAD
400252-040	OPPORTUNITY, INC.	DOTOLO, L.	75,546	430	-	35,467	111,443	7,598	-	119,041		TRAD
			499,934	79,069	-	36,598	615,601	46,456	-	662,057	7.55%	
TOTAL AFFILIATED ACTIVITY			**$ 1,798,934**	**$ 640,460**	**$ -**	**$ 1,454,878**	**$ 3,894,272**	**$ 254,002**	**$ -**	**$ 4,148,274**	**6.52%**	
GRAND TOTAL			**$ 22,917,427**	**$ 6,220,083**	**$ 1,927,345**	**$ 8,949,429**	**$ 40,014,283**	**$ 8,886,777**	**$ -**	**$ 48,901,061**	**22.21%**	

SCHEDULE 5

Enterprise Centers Including Projects Reported as

Activity of an Academic Department

Fiscal Year 2019

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 2019

					PROJECT DIRECT COST					PROJECT IDC AND FEES				
PROJECT NUMBER			PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	DEPT	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
APPLIED RESEARCH CENTER														
300311-010		ROCHESTER INSTITUE OF TECHNOLOGY	BAILEY, C.	4054.1	6,199	-	-	-	6,199	3,285		9,484		ARC
300409-010	*	UNIVERSITY OF VIRGINIA	BAUMGART, H.	4054.1	-	(34)	-	-	(34)	-		(34)		ARC
500121-010		MICROXACT, INC.	BAUMGART, H.	4054.1	-	-	-	(15,115)	(15,115)	(3,930)		(19,045)		ARC
100567-020		LANGLEY RESEARCH CENTER	ELSAYED-ALI, H.	4054.1	9,443	245	-	-	9,688	2,519		12,207		ARC
100567-020		LANGLEY RESEARCH CENTER	ELSAYED-ALI, H.	4054.1	9,240	-	-	-	9,240	2,402		11,643		ARC
100674-010		NATIONAL SCIENCE FOUNDATION	ELSAYED-ALI, H.	4054.1	31,079	2,088	-	-	33,167	18,242		51,408		ARC
100674-010		NATIONAL SCIENCE FOUNDATION	ELSAYED-ALI, H.	4054.1	17,544	252	2,701	584	21,081	9,788		30,869		ARC
200272-010	*	CENTER FOR INNOVATIVE TECHNOLOGY	ELSAYED-ALI, H.	4054.1	21,212	5,906	-	-	27,117	8,135		35,253		ARC
200272-010	*	CENTER FOR INNOVATIVE TECHNOLOGY	ELSAYED-ALI, H.	4054.1	4,688	5,759	-	-	10,446	3,134		13,580		ARC
300409-010	*	UNIVERSITY OF VIRGINIA	ELSAYED-ALI, H.	4054.1	-	(80)	-	-	(80)	-		(80)		ARC
300430-010		UNIVERSITY OF VIRGINIA	ELSAYED-ALI, H.	4054.1	4,040	2,672	-	135	6,847	-		6,847		ARC
300467-010		UNIVERSITY OF VIRGINIA	ELSAYED-ALI, H.	4054.1	7,866	409	-	-	8,275	-		8,275		ARC
400125-020		EMBODY	ELSAYED-ALI, H.	4054.1	-	-	-	1,076	1,076	591		1,667		ARC
400125-020		EMBODY	ELSAYED-ALI, H.	4054.1	-	525	-	-	525	289		814		ARC
400346-011		JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	ELSAYED-ALI, H.	4054.1	14,299	1,070	-	-	15,369	-		15,369		ARC
400346-011		JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	ELSAYED-ALI, H.	4054.1	13,608	950	-	-	14,558	-		14,558		ARC
400352-010		EMBODY	ELSAYED-ALI, H.	4054.1	-	120	-	124	244	134		378		ARC
500288-010		FACE CONSTRUCTION TECHNOLOGIES	ELSAYED-ALI, H.	4054.1	-	-	-	244	244	134		379		ARC
500322-010		AONA CORP (ACCELERATOR DRIVEN NEUTRON APPLICATIONS)	ELSAYED-ALI, H.	4054.1	-	-	-	351	351	-		351		ARC
500322-010		AONA CORP (ACCELERATOR DRIVEN NEUTRON APPLICATIONS)	ELSAYED-ALI, H.	4054.1	9,539	110	-	-	9,649	-		9,649		ARC
500345-010		MTEQ MANUFACTURING SERVICES	ELSAYED-ALI, H.	4054.1	-	-	-	1,513	1,513	-		1,513		ARC
500345-010		MTEQ MANUFACTURING SERVICES	ELSAYED-ALI, H.	4054.1	-	908	-	-	908	-		908		ARC
500361-010		BLACK LABORATORIES, LLC	ELSAYED-ALI, H.	4054.1	-	1,290	-	-	1,290	710		2,000		ARC
500369-010		EVERGREEN TECHNOLOGIES, LLC	ELSAYED-ALI, H.	4054.1	-	1,580	-	-	1,580	411		1,991		ARC
500374-010		II-VI INFARED, INC.	ELSAYED-ALI, H.	4054.1	5,457	-	-	-	5,457	1,419		6,876		ARC
500378-010		FACE CONSTRUCTION TECHNOLOGIES	ELSAYED-ALI, H.	4054.1	11,714	1,972	-	-	13,686	7,527		21,213		ARC
500378-010		FACE CONSTRUCTION TECHNOLOGIES	ELSAYED-ALI, H.	4054.1	3,730	1,573	-	-	5,303	2,917		8,220		ARC
500380-010		MTEQ MANUFACTURING SERVICES	ELSAYED-ALI, H.	4054.1	-	15,596	-	-	15,596	-		15,596		ARC
500380-010		MTEQ MANUFACTURING SERVICES	ELSAYED-ALI, H.	4054.1	-	2,005	-	-	2,005	-		2,005		ARC
500385-010		DR. DANIEL P. HENKEL	ELSAYED-ALI, H.	4054.1	-	-	-	-	-	1		1		ARC
500385-010		DR. DANIEL P. HENKEL	ELSAYED-ALI, H.	4054.1	-	350	-	-	350	193		543		ARC
100256-010	*	NATIONAL SCIENCE FOUNDATION	MARSILLAC, S.	4054.1	-	356	-	13,850	14,206	189		14,394		ARC
300344-010		UNIVERSITY OF TOLEDO	MARSILLAC, S.	4054.1	-	-	-	15	15	8		23		ARC
300428-010		COLORADO SCHOOL OF MINES	MARSILLAC, S.	4054.1	27,830	21,285	3,969	-	53,084	27,013		80,097		ARC
300436-010		COLORADO SCHOOL OF MINES	MARSILLAC, S.	4054.1	16,231	1,276	-	-	17,507	9,629		27,136		ARC
100256-010	*	NATIONAL SCIENCE FOUNDATION	NAMKOONG, G.	4054.1	-	1,138	-	44,320	45,458	603		46,062		ARC
100527-028		NASA GODDARD SPACEFLIGHT CENTER	NAMKOONG, G.	4054.1	2,385	915	-	-	3,300	-		3,300		ARC
300392-010		NORFOLK STATE UNIVERSITY	NAMKOONG, G.	4054.1	6,341	-	-	-	6,341	3,487		9,828		ARC
300465-010		UNIVERSITY OF VIRGINIA	NAMKOONG, G.	4054.1	5,716	5,196	-	717	11,629	-		11,629		ARC
600211-010		SAMIL TECH COMPANY, LTD	NAMKOONG, G.	4054.1	9,508	36	-	-	9,544	-		9,544		ARC
200272-010	*	CENTER FOR INNOVATIVE TECHNOLOGY	RAMJEE, B.	6082.1	2,357	656	-	-	3,013	904		3,917		ARC
					240,024	76,124	6,670	47,815	370,633	99,733	-	470,366	26.91%	

FRANK REIDY RESEARCH CENTER FOR BIOELECTRICS

300427-010	*	OLD DOMINION UNIVERSITY	BEEBE, S.	9010.2	37,001	431	-	5,000	42,432	11,230	53,662	CBE
300427-910	*	PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	9010.2	22,153	21,072	10,916	1,312	55,453	12,967	68,420	CBE
300455-020	*	UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER	BEEBE, S.	9010.2	-	168	-	-	168	-	168	CBE
500226-013	*	PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	9010.2	15,457	3,050	-	-	18,507	10,179	28,685	CBE
500314-010		PULSE CENTERS	BEEBE, S.	9010.2	-	159	-	63	221	122	343	CBE
100517-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	BULYSHEVA, A.	4054.2	14,698	8,305	-	-	23,004	12,192	35,195	CBE
300474-010		OLD DOMINION UNIVERSITY	BULYSHEVA, A.	4054.2	14,037	29,715	26,314	473,750	543,817	13,126	556,943	CBE
300487-010	*	OLD DOMINION UNIVERSITY	BULYSHEVA, A.	4054.2	20,028	6,047	-	3,750	29,825	7,823	37,648	CBE
500381-010	*	LIFENET	BULYSHEVA, A.	4054.2	15,871	9,242	3,223	3,750	32,085	7,534	39,619	CBE
100692-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	CATRAVAS, J.	5056.2	104,492	25,329	-	-	129,821	71,402	201,222	CBE
100789-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	CATRAVAS, J.	5056.2	82,369	29,973	-	-	112,342	61,788	174,130	CBE
500366-010	*	OLYMPUS CORPORATION OF THE AMERICAS	CATRAVAS, J.	5056.2	-	(71)	-	1,174	1,103	(81)	1,022	CBE
600210-010		FERRING PHARMACEUTICALS INC.	CATRAVAS, J.	5056.2	17,912	99	-	6,267	24,278	13,353	37,631	CBE
600186-010	*	UNIVERSITY OF SOUTHAMPTON	CHEN, H.	9010.2	28,533	6,327	1,624	-	36,484	18,475	54,959	CBE
100517-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	GUO, S.	5056.2	4,739	3,722	-	-	8,461	4,484	12,945	CBE
100517-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	GUO, S.	9010.2	9,960	4,583	-	-	14,543	7,708	22,251	CBE
100732-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	GUO, S.	9010.2	26,306	14,262	-	-	40,568	22,312	62,880	CBE
300427-010	*	OLD DOMINION UNIVERSITY	GUO, S.	9010.2	29,241	127	-	-	29,368	8,810	38,179	CBE
300427-010	*	OLD DOMINION UNIVERSITY	GUO, S.	9010.2	7,760	304	-	5,000	13,064	2,419	15,483	CBE
300427-910	*	PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	9010.2	1,604	5,764	-	-	7,368	2,210	9,579	CBE
500226-009	*	PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	9010.2	479	1,925	-	-	2,405	1,323	3,727	CBE
500226-011	*	PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	9010.2	3,326	2,312	-	-	5,637	3,101	8,738	CBE
500226-013	*	PULSE BIOSCIENCES (ELECTROBLATE)	GUO, S.	9010.2	15,457	3,050	-	-	18,507	10,179	28,685	CBE
100516-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	HELLER, R.	5056.2	160,099	46,745	-	-	206,844	109,627	316,471	CBE
100517-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	HELLER, R.	5056.2	68,592	38,758	-	-	107,350	56,895	164,245	CBE
100579-010		U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	HELLER, L.	5056.2	72,283	16,127	-	66,632	155,042	48,625	203,667	CBE
100740-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	HELLER, R.	5056.2	45,969	4,843	-	-	50,812	27,947	78,758	CBE
500226-000		PULSE BIOSCIENCES (ELECTROBLATE)	HELLER, R.	5056.2	-	(34)	-	-	(34)	-	(34)	CBE
500226-013	*	PULSE BIOSCIENCES (ELECTROBLATE)	HELLER, R.	5056.2	15,925	3,143	-	-	19,067	10,487	29,555	CBE
100661-010		AIR FORCE RESEARCH LABORATORY	JIANG, C.	4054.2	80,210	11,868	-	-	92,078	50,643	142,721	CBE
100732-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	JIANG, C.	4054.2	11,274	6,112	-	-	17,386	9,562	26,949	CBE
100740-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	JIANG, C.	4054.2	45,969	4,843	-	-	50,812	27,947	78,758	CBE
500328-010		TRANSIENT PLASMA SYSTEMS, INC.	JIANG, C.	4054.2	-	311	-	7,071	7,382	4,232	11,614	CBE
600186-010	*	UNIVERSITY OF SOUTHAMPTON	KONG, M.	4054.2	66,576	14,763	3,790	-	85,129	43,109	128,238	CBE
500226-010	*	PULSE BIOSCIENCES (ELECTROBLATE)	MURATORI, C.	9010.2	15,315	2,452	-	-	17,767	9,772	27,539	CBE
500226-015	*	PULSE BIOSCIENCES (ELECTROBLATE)	MURATORI, C.	9010.2	77,991	21,847	-	-	99,839	54,911	154,750	CBE
500226-017	*	PULSE BIOSCIENCES (ELECTROBLATE)	MURATORI, C.	9010.2	7,873	3,024	-	-	10,897	5,993	16,890	CBE
100548-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	PAKHOMOV, A.	5056.2	26,294	2,945	-	-	29,239	16,081	45,320	CBE
300345-010		OLD DOMINION UNIVERSITY	PAKHOMOV, A.	5056.2	168,437	42,705	-	266,914	478,056	116,128	594,185	CBE
300345-013	*	OLD DOMINION UNIVERSITY	PAKHOMOV, A.	5056.2	19,200	3,970	-	-	23,169	12,743	35,913	CBE
500226-014		PULSE BIOSCIENCES (ELECTROBLATE)	PAKHOMOV, A.	5056.2	77,697	18,644	-	-	96,340	52,987	149,328	CBE
100548-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	PAKHOMOVA, O.	9010.2	3,287	368	-	-	3,655	2,010	5,665	CBE
300345-012		OLD DOMINION UNIVERSITY	PAKHOMOVA, O.	9010.2	74,552	40,269	-	-	114,821	63,152	177,973	CBE
300345-013	*	OLD DOMINION UNIVERSITY	PAKHOMOVA, O.	9010.2	2,363	489	-	-	2,852	1,568	4,420	CBE
500226-010	*	PULSE BIOSCIENCES (ELECTROBLATE)	PAKHOMOVA, O.	9010.2	6,564	1,051	-	-	7,614	4,188	11,802	CBE
500226-015	*	PULSE BIOSCIENCES (ELECTROBLATE)	PAKHOMOVA, O.	9010.2	19,498	5,462	-	-	24,960	13,728	38,687	CBE
500366-010	*	OLYMPUS CORPORATION OF THE AMERICAS	PAKHOMOVA, O.	9010.2	-	(71)	-	1,174	1,103	(81)	1,022	CBE

100548-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	SEMENOV, I.	9010.2	6,574	736	-	-	7,310	4,020		11,330		CBE
300345-013	*	OLD DOMINION UNIVERSITY	SEMENOV, I.	9010.2	1,182	244	-	-	1,426	784		2,210		CBE
100807-010		NATIONAL SCIENCE FOUNDATION	SLAUGHTER, G.	4054.2	15,404	-	-	-	15,404	8,472		23,877		CBE
100809-010		NATIONAL SCIENCE FOUNDATION	SLAUGHTER, G.	4054.2	55,798	2,040	-	-	57,837	31,810		89,648		CBE
400393-010		BREEDEN-ADAMS FOUNDATION	STACEY, M.	9010.2	-	4,506	-	-	4,506	-		4,506		CBE
100474-010		AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	VERNIER, P.	9010.2	20,534	1,815	-	-	22,349	11,845		34,195		CBE
300345-013	*	OLD DOMINION UNIVERSITY	VERNIER, P.	9010.2	40,322	6,774	-	-	47,096	25,903		72,999		CBE
500226-009	*	PULSE BIOSCIENCES (ELECTROBLATE)	VERNIER, T.	9010.2	479	1,925	-	-	2,405	1,323		3,727		CBE
100548-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	XIAO, S.	4054.2	3,287	368	-	-	3,655	2,010		5,665		CBE
300345-011		OLD DOMINION UNIVERSITY	XIAO, S.	4054.2	62,441	11,702	-	-	74,143	40,779		114,922		CBE
300345-013	*	OLD DOMINION UNIVERSITY	XIAO, S.	4054.2	2,363	489	-	-	2,852	1,568		4,420		CBE
300479-010	*	VIRGINIA COMMONWEALTH UNIVERSITY	XIAO, S.	4054.2	2,098	1,410	-	-	3,508	-		3,508		CBE
500226-011	*	PULSE BIOSCIENCES (ELECTROBLATE)	XIAO, S.	4054.2	18,845	13,100	-	-	31,945	17,570		49,515		CBE
500226-016		PULSE BIOSCIENCES (ELECTROBLATE)	XIAO, S.	4054.2	10,649	9,655	-	-	20,304	11,167		31,471		CBE
100548-010	*	U.S. PUBLIC HEALTH SERVICE (NATIONAL INSTITUTES OF HEALTH-NIH)	ZEMLIN, C.	4054.2	26,294	2,945	-	-	29,239	16,081		45,320		CBE
300487-010	*	OLD DOMINION UNIVERSITY	ZEMLIN, C.	4054.2	20,028	6,047	-	3,750	29,825	7,823		37,648		CBE
400333-010		AMERICAN HEART ASSOCIATION	ZEMLIN, C.	4054.2	34,071	2,332	-	-	36,403	-		36,403		CBE
500226-007	*	PULSE BIOSCIENCES (ELECTROBLATE)	ZEMLIN, C.	4054.2	17,749	110	-	-	17,859	9,823		27,682		CBE
500359-010		ATRICURE, INC	ZEMLIN, C.	4054.2	-	27,754	-	-	27,754	15,265		43,019		CBE
500381-010	*	LIFENET	ZEMLIN, C.	4054.2	15,871	9,242	3,223	3,750	32,085	7,534		39,619		CBE
					1,891,378	569,721	49,090	849,357	3,359,547	1,258,689	-	4,618,236	37.47%	

SOCIAL SCIENCE RESEARCH CENTER

200221-020	*	CITY OF SUFFOLK	VANDECAR-BURDIN, T.	1060	1,665	-	-	-	1,665	433		2,098	SSRC
200233-010		CITY OF PORTSMOUTH	VANDECAR-BURDIN, T.	1060	-	(37)	-	-	(37)	(10)		(47)	SSRC
200248-010	*	VIRGINIA OFFICE OF THE ATTORNEY GENERAL	VANDECAR-BURDIN, T.	1060	9,018	-	-	-	9,018	2,345		11,362	SSRC
200254-010		CITY OF VIRGINIA BEACH	VANDECAR-BURDIN, T.	1060	-	-	-	95	95	15		110	SSRC
200269-010		VIRGINIA BEACH DEPARTMENT OF PUBLIC HEALTH	VANDECAR-BURDIN, T.	1060	2,757	42	-	-	2,798	1,539		4,337	SSRC
200285-010		CITY OF VIRGINIA BEACH	VANDECAR-BURDIN, T.	1060	1,064	-	-	53	1,117	-		1,117	SSRC
200295-010		CITY OF CHESAPEAKE	VANDECAR-BURDIN, T.	1060	412	480	-	-	892	491		1,382	SSRC
300312-010		OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	1060	4,855	(98)	-	-	4,757	238		4,995	SSRC
300333-010	*	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	1060	-	(15)	-	-	(15)	(1)		(16)	SSRC
300356-020	*	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	1060	4,850	33	-	-	4,883	391		5,274	SSRC
300356-040	*	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	1060	229	-	-	-	229	18		247	SSRC
300432-010	*	OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	1060	-	-	-	10,828	10,828	542		11,369	SSRC
300433-010		OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	1060	-	-	-	564	564	-		564	SSRC
300450-010		OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	1060	-	-	-	-	-	(0)		(0)	SSRC
300481-010		OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	1060	21,633	4,813	-	-	26,446	1,322		27,769	SSRC
300513-010		OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	1060	16,538	13,430	-	-	29,969	1,498		31,467	SSRC
300519-010	*	EASTERN VIRGINIA MEDICAL SCHOOL	VANDECAR-BURDIN, T.	1060	4,199	2,417	-	-	6,615	-		6,615	SSRC
300521-010		OLD DOMINION UNIVERSITY	VANDECAR-BURDIN, T.	1060	6,580	1,831	-	-	8,411	-		8,411	SSRC
400371-010		AMERICAN SOCIETY OF BIOMECHANICS	VANDECAR-BURDIN, T.	1060	490	-	-	-	490	269		759	SSRC
400411-010		VIRGINIA ARTS FESTIVAL	VANDECAR-BURDIN, T.	1060	968	857	-	-	1,825	474		2,299	SSRC
500372-010	*	HOGAN-LOVELLS	VANDECAR-BURDIN, T.	1060	17,307	827	-	-	18,134	9,974		28,108	SSRC
					92,564	24,579	-	11,540	128,683	19,538	-	148,221	15.18%

CENTER FOR CYBERSECURITY

100746-010	*	NATIONAL SCIENCE FOUNDATION	CHRISOCHOIDES, N.	6093.9	-	-	300,740	-	300,740	-		300,740	CYBER
100799-010	*	NATIONAL SECURITY AGENCY	DICE, T.	3040.9	1,818	-	-	-	1,818	1,000		2,818	CYBER
100706-010	*	NATIONAL SECURITY AGENCY	DRAPER, D.	9910.9	3,959	2,915	-	-	6,874	3,781		10,655	CYBER
100648-010	*	NATIONAL SCIENCE FOUNDATION	HE, W.	2032.9	2,556	6,001	-	22,129	30,686	4,706		35,392	CYBER
100706-010	*	NATIONAL SECURITY AGENCY	HE, W.	2032.9	5,939	4,372	-	-	10,311	5,671		15,982	CYBER
100709-010	*	NATIONAL SCIENCE FOUNDATION	HE, W.	2032.9	5,505	1,876	-	15,944	23,325	4,059		27,384	CYBER
100746-010	*	NATIONAL SCIENCE FOUNDATION	HUANG, J.	4060.9	-	-	300,740	-	300,740	-		300,740	CYBER
100648-010	*	NATIONAL SCIENCE FOUNDATION	IFTEKHARUDDIN, K.	4054.9	663	4,044	-	7,052	11,759	2,589		14,348	CYBER
100746-010	*	NATIONAL SCIENCE FOUNDATION	IFTEKHARUDDIN, K.	4054.9	-	-	300,740	-	300,740	-		300,740	CYBER
100648-010	*	NATIONAL SCIENCE FOUNDATION	LI, J.	4054.9	663	4,044	-	7,052	11,759	2,589		14,348	CYBER
100675-010		NATIONAL SCIENCE FOUNDATION	PAYNE, B.	9910.9	65,430	7,445	-	56,715	129,590	40,081		169,672	CYBER
100709-010	*	NATIONAL SCIENCE FOUNDATION	PAYNE, B.	9910.9	5,505	1,876	-	15,944	23,325	4,059		27,384	CYBER
100745-010	*	NATIONAL SCIENCE FOUNDATION	PAYNE, B.	9910.9	4,250	300	-	2,236	6,787	2,503		9,290	CYBER
300411-010	*	OLD DOMINION UNIVERSITY	PAYNE, B.	9910.9	-	19	-	680	699	-		699	CYBER
100723-010	*	NATIONAL SCIENCE FOUNDATION	SOSONKINA, M.	4075.9	11,730	-	-	1,201	12,931	6,452		19,383	CYBER
100746-010	*	NATIONAL SCIENCE FOUNDATION	SOSONKINA, M.	4075.9	-	-	300,740	-	300,740	-		300,740	CYBER
100745-010	*	NATIONAL SCIENCE FOUNDATION	WANG, C.	6093.9	3,789	-	-	2,236	6,025	2,084		8,109	CYBER
600214-010		HUAWEI TECHNOLOGIES CO. LTD	WANG, C.	6093.9	-	-	-	3,873	3,873	2,129		6,002	CYBER
100745-010	*	NATIONAL SCIENCE FOUNDATION	WANG, C.	6093.9	462	300	-	-	762	419		1,181	CYBER
600214-010		HUAWEI TECHNOLOGIES CO. LTD	WANG, C.	6093.9	2,063	1,814	-	-	3,877	2,132		6,010	CYBER
100799-010	*	NATIONAL SECURITY AGENCY	WITTKOWER, D.	1017.9	1,818	-	-	-	1,818	1,000		2,818	CYBER
100612-010		NATIONAL SCIENCE FOUNDATION	WU, H.	4054.9	41,206	-	-	5,990	47,196	22,663		69,860	CYBER
100612-010		NATIONAL SCIENCE FOUNDATION	WU, H.	4054.9	7,487	6,891	-	-	14,378	7,908		22,286	CYBER
100706-010	*	NATIONAL SECURITY AGENCY	WU, H.	4054.9	3,959	2,803	-	-	6,762	3,719		10,482	CYBER
100709-010	*	NATIONAL SCIENCE FOUNDATION	WU, H.	4054.9	1,754	-	-	7,999	9,753	965		10,717	CYBER
100723-010	*	NATIONAL SCIENCE FOUNDATION	WU, H.	4054.9	1,286	-	-	-	1,286	707		1,993	CYBER
100745-010	*	NATIONAL SCIENCE FOUNDATION	WU, H.	4054.9	462	300	-	-	762	419		1,181	CYBER
100791-010	*	OFFICE OF NAVAL RESEARCH	WU, H.	4054.9	4,438	-	-	1,460	5,898	2,885		8,783	CYBER
100706-010	*	NATIONAL SECURITY AGENCY	WU, H.	4054.9	-	112	-	-	112	61		173	CYBER
100723-010	*	NATIONAL SCIENCE FOUNDATION	WU, H.	4054.9	12,086	-	-	1,237	13,323	6,647		19,970	CYBER
100745-010	*	NATIONAL SCIENCE FOUNDATION	WU, H.	4054.9	3,789	-	-	2,236	6,025	2,084		8,109	CYBER
100746-010	*	NATIONAL SCIENCE FOUNDATION	WU, H.	4054.9	-	-	300,740	-	300,740	-		300,740	CYBER
100791-010	*	OFFICE OF NAVAL RESEARCH	WU, H.	4054.9	23,316	289	-	883	24,487	15,343		39,830	CYBER
100799-010	*	NATIONAL SECURITY AGENCY	WU, H.	4054.9	1,818	-	-	-	1,818	1,000		2,818	CYBER

100253-010		NATIONAL SCIENCE FOUNDATION	XIN, C.	4054.9	2,540	-	-	-	2,540	1,346		3,887		CYBER
100648-010	*	NATIONAL SCIENCE FOUNDATION	XIN, C.	4054.9	1,893	1,957	-	15,077	18,927	2,117		21,044		CYBER
100648-010	*	NATIONAL SCIENCE FOUNDATION	XIN, C.	4054.9	663	4,044	-	7,052	11,759	2,589		14,348		CYBER
100680-010		NATIONAL SCIENCE FOUNDATION	XIN, C.	4054.9	5,001	-	-	-	5,001	2,751		7,752		CYBER
100680-010		NATIONAL SCIENCE FOUNDATION	XIN, C.	4054.9	4,863	299	-	-	5,162	2,839		8,001		CYBER
100680-020		NATIONAL SCIENCE FOUNDATION	XIN, C.	4054.9	-	-	-	10,000	10,000	-		10,000		CYBER
100706-010	*	NATIONAL SECURITY AGENCY	XIN, C.	4054.9	-	168	-	-	168	92		260		CYBER
100709-010	*	NATIONAL SCIENCE FOUNDATION	XIN, C.	4054.9	7,502	3,752	-	15,890	27,144	6,190		33,334		CYBER
100745-010	*	NATIONAL SCIENCE FOUNDATION	XIN, C.	4054.9	3,789	-	-	2,236	6,025	2,084		8,109		CYBER
100791-010	*	OFFICE OF NAVAL RESEARCH	XIN, C.	4054.9	22,630	280	-	857	23,767	14,892		38,658		CYBER
100799-010	*	NATIONAL SECURITY AGENCY	XIN, C.	4054.9	1,818	-	-	-	1,818	1,000		2,818		CYBER
100706-010	*	NATIONAL SECURITY AGENCY	XIN, C.	4054.9	5,939	4,205	-	-	10,144	5,579		15,722		CYBER
100709-010	*	NATIONAL SCIENCE FOUNDATION	XIN, C.	4054.9	1,754	-	-	7,999	9,753	965		10,717		CYBER
100745-010	*	NATIONAL SCIENCE FOUNDATION	XIN, C.	4054.9	462	300	-	-	762	419		1,181		CYBER
100791-010	*	OFFICE OF NAVAL RESEARCH	XIN, C.	4054.9	4,307	-	-	1,417	5,725	2,800		8,524		CYBER
100799-010	*	NATIONAL SECURITY AGENCY	ZHAO, D.	6093.9	1,818	-	-	-	1,818	1,000		2,818		CYBER
					282,730	60,406	1,503,701	215,397	2,062,235	196,319	-	2,258,554	9.52%	
CENTER FOR EDUCATIONAL PARTNERSHIPS														
300502-010	*	WESTERN WASHINGTON UNIVERSITY	BROBST, J.	3048	11,518	64	-	-	11,582	609		12,191		TCEP
300503-010		WESTERN WASHINGTON UNIVERSITY	BROBST, J.	3048	16,242	-	-	-	16,242	8,933		25,175		TCEP
100721-010	*	OFFICE OF NAVAL RESEARCH	CHAPPELL, S.	3048	4,688	8,250	-	59,085	72,023	4,658		76,681		TCEP
200210-010	*	NEWPORT NEWS PUBLIC SCHOOLS	CHAPPELL, S.	3048	2,265	-	-	-	2,265	-		2,265		TCEP
200213-010	*	CHESAPEAKE PUBLIC SCHOOLS	CHAPPELL, S.	3048	5,710	-	-	-	5,710	-		5,710		TCEP
200216-010		VIRGINIA BEACH CITY PUBLIC SCHOOLS	CHAPPELL, S.	3048	(376)	-	-	7,291	6,915	-		6,915		TCEP
300502-010	*	WESTERN WASHINGTON UNIVERSITY	CHAPPELL, S.	3048	11,518	64	-	-	11,582	609		12,191		TCEP
200009-022		STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	GARNER, J.	3048	553	1,666	-	-	2,219	-		2,219		TCEP
200188-040	*	OLD DOMINION UNIVERSITY	GARNER, J.	3048	3,184	4,725	-	9,261	17,170	633		17,803		TCEP
200210-010	*	NEWPORT NEWS PUBLIC SCHOOLS	GARNER, J.	3048	2,265	-	-	-	2,265	-		2,265		TCEP
200213-010	*	CHESAPEAKE PUBLIC SCHOOLS	GARNER, J.	3048	5,710	-	-	-	5,710	-		5,710		TCEP
200225-010		PRINCE WILLIAM COUNTY PUBLIC SCHOOLS	GARNER, J.	3048	7,789	-	-	-	7,789	4,284		12,073		TCEP
100721-010	*	OFFICE OF NAVAL RESEARCH	GARNER, J.	3048	4,830	8,500	-	60,876	74,205	4,799		79,004		TCEP
200183-040	*	OLD DOMINION UNIVERSITY	GARNER, J.	3048	2,784	5,197	-	4,706	12,687	639		13,326		TCEP
400354-010	*	CHESAPEAKE BAY FOUNDATION	GARNER, J.	3048	-	1,468	-	-	1,468	-		1,468		TCEP
100721-010	*	OFFICE OF NAVAL RESEARCH	LONEY, M.	3048	4,688	8,250	-	59,085	72,023	4,658		76,681		TCEP
200183-040	*	OLD DOMINION UNIVERSITY	LONEY, M.	3048	6,497	12,127	-	10,980	29,603	1,490		31,093		TCEP
200188-040	*	OLD DOMINION UNIVERSITY	LONEY, M.	3048	13,798	20,475	-	40,133	74,405	2,742		77,147		TCEP
200290-010	*	YORK COUNTY SCHOOLS	LONEY, M.	3048	11,324	433	-	-	11,757	588		12,345		TCEP
400354-010	*	CHESAPEAKE BAY FOUNDATION	LONEY, M.	3048	-	2,202	-	-	2,202	-		2,202		TCEP
200290-010	*	YORK COUNTY SCHOOLS	WEBSTER, H.	3048	4,853	186	-	-	5,039	252		5,291		TCEP
					119,839	73,608	-	251,416	444,863	34,892	-	479,755	7.84%	

MITIGATION & ADAPTION RESEARCH INSTITUTE

100565-010		U.S. FISH AND WILDLIFE SERVICES	PLAG, H.	6085	15,942	4,037	-	20,046	40,025	-		40,025	MARI
100678-010		NASA/HEADQUARTERS	PLAG, H.	6085	307	-	-	-	307	80		387	MARI
					16,249	4,037	-	20,046	40,332	80	-	40,412	0.20%

VIRGINIA MODELING, ANALYSIS AND SIMULATION CENTER

100531-001	*	NAVAL SEA SYSTEMS COMMAND	BARRACO, A.	9010.3	(1)	-	-	-	(1)	(1)		(1)	VMASC
600201-010	*	UNIVERSITY OF AGDER	BARRACO, A.	9010.3	16,455	5	-	-	16,459	9,053		25,512	VMASC
300492-010	*	OLD DOMINION UNIVERSITY	BEHR, J.	9010.3	8,735	1,155	-	-	9,890	-		9,890	VMASC
500341-001	*	APPLIED RESEARCH ASSOCIATES, INC.	CROLL, M.	9010.3	(6)	-	-	0	(6)	(3)		(9)	VMASC
500342-001	*	WR SYSTEMS, LTD.	CROLL, M.	9010.3	6,598	-	-	877	7,475	4,859		12,334	VMASC
500362-010	*	G2 OPS, INC.	CROLL, M.	9010.3	(0)	-	-	0	(0)	(0)		(0)	VMASC
100710-010	*	NAVAL SPEC WARFARE DEVELOPMENT GROUP	CVIJETIC, B.	9010.3	-	-	-	-	-	(0)		(0)	VMASC
500376-010	*	CAMBER CORPORATION	CVIJETIC, B.	9010.3	8,947	-	-	53	9,000	5,850		14,850	VMASC
500391-010	*	CAMBER CORPORATION	CVIJETIC, B.	9010.3	15,687	-	-	-	15,687	10,197		25,884	VMASC
500354-010		CAMBER CORPORATION	DIALLO, S.	9010.3	-	-	-	0	0	0		1	VMASC
500388-010		SIRIUS-BETA CORPORATION	DIALLO, S.	9010.3	2,961	-	-	265	3,226	1,774		5,000	VMASC
500395-010		KADSCI	DIALLO, S.	9010.3	25,001	-	-	-	25,001	16,250		41,251	VMASC
500400-010		UNITED NETWORK FOR ORGAN SHARING (UNOS)	DIALLO, S.	9010.3	15,190	319	-	-	15,509	8,530		24,039	VMASC
300490-010	*	OLD DOMINION UNIVERSITY	DIALLO, S.	9010.3	19,016	2,679	-	-	21,695	-		21,695	VMASC
400351-010	*	CENTER FOR MIND AND CULTURE	DIALLO, S.	9010.3	2,248	985	-	-	3,233	485		3,718	VMASC
500341-001	*	APPLIED RESEARCH ASSOCIATES, INC.	DIALLO, S.	9010.3	4,600	-	-	-	4,600	2,530		7,131	VMASC
500375-001	*	CAMBER CORPORATION	DIALLO, S.	9010.3	41,526	-	-	-	41,526	26,992		68,518	VMASC
500376-010	*	CAMBER CORPORATION	DIALLO, S.	9010.3	8,947	-	-	53	9,000	5,850		14,850	VMASC
500391-010	*	CAMBER CORPORATION	DIALLO, S.	9010.3	15,687	-	-	-	15,687	10,197		25,884	VMASC
600201-010	*	UNIVERSITY OF AGDER	DIALLO, S.	9010.3	16,455	5	-	-	16,459	9,053		25,512	VMASC
200245-010		VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	EZELL, B.	9010.3	-	(2,848)	-	-	(2,848)	(1,566)		(4,415)	VMASC
200270-010		VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	EZELL, B.	9010.3	88,296	27,365	-	37,435	153,096	69,192		222,288	VMASC
200292-010		VA PORT AUTHORITY	EZELL, B.	9010.3	2,764	804	-	-	3,569	928		4,497	VMASC
200294-010	*	VA PORT AUTHORITY	EZELL, B.	9010.3	7,800	1,839	-	-	9,639	2,506		12,145	VMASC
200297-010		VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	EZELL, B.	9010.3	14,028	1,608	-	-	15,636	8,600		24,236	VMASC
400364-010		MITRE CORPORATION	EZELL, B.	9010.3	7,259	-	-	(1)	7,258	3,992		11,250	VMASC
400387-010		FOODBANK OF SOUTHEAST VA AND EASTERN SHORE	EZELL, B.	9010.3	-	1,470	-	-	1,470	382		1,852	VMASC
500325-020		PLASSER AMERICAN CORPORATION	EZELL, B.	9010.3	-	-	-	16,656	16,656	-		16,656	VMASC
500332-010		DAVIS INTERIORS LTD.	EZELL, B.	9010.3	-	-	-	96	96	26		122	VMASC
500356-010		ARDX	EZELL, B.	9010.3	-	-	-	-	-	(1)		(1)	VMASC
500363-010		LPR, INC.	EZELL, B.	9010.3	-	-	-	441	441	115		557	VMASC
500364-010		PLASSER AMERICAN CORPORATION	EZELL, B.	9010.3	-	-	-	1,602	1,602	417		2,019	VMASC
500367-010		LPR, INC.	EZELL, B.	9010.3	444	-	-	-	444	116		560	VMASC
500373-010		PLASSER AMERICAN CORPORATION	EZELL, B.	9010.3	-	-	-	999	999	260		1,259	VMASC
500383-010		CHESAPEAKE REGIONAL HEALTHCARE	EZELL, B.	9010.3	-	-	-	1,639	1,639	426		2,065	VMASC
500386-010		LIFENET	EZELL, B.	9010.3	-	-	-	3,122	3,122	812		3,934	VMASC
500401-010	*	CHESAPEAKE REGIONAL HEALTHCARE	EZELL, B.	9010.3	8,787	2,004	-	-	10,791	2,806		13,597	VMASC
100800-010	*	NAVAL AIR WARFARE CENTER TSD	EZELL, B.	9010.3	149	22	-	-	171	111		282	VMASC
200252-010	*	VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	EZELL, B.	9010.3	(0)	-	-	-	(0)	(0)		(0)	VMASC
400328-010	*	BATTELLE CORPORATION	EZELL, B.	9010.3	2,426	-	-	-	2,426	1,335		3,761	VMASC
500341-001	*	APPLIED RESEARCH ASSOCIATES, INC.	EZELL, B.	9010.3	4,600	-	-	-	4,600	2,530		7,131	VMASC
500341-002	*	APPLIED RESEARCH ASSOCIATES, INC.	EZELL, B.	9010.3	-	-	-	0	0	2		2	VMASC
500341-003	*	APPLIED RESEARCH ASSOCIATES, INC.	EZELL, B.	9010.3	3,409	-	-	-	3,409	1,875		5,284	VMASC
500362-010	*	G2 OPS, INC.	EZELL, B.	9010.3	(0)	-	-	0	(0)	(0)		(0)	VMASC
500390-010	*	ALEX - ALTERNATIVE EXPERTS, LLC	EZELL, B.	9010.3	20,612	69	-	-	20,681	13,443		34,123	VMASC
500362-010	*	G2 OPS, INC.	FLANAGAN, D.	9010.3	(0)	-	-	0	(0)	(0)		(0)	VMASC
200244-011	*	VA PORT AUTHORITY	FOYTIK, P.	9010.3	-	-	-	-	-	0		0	VMASC
300445-010	*	OLD DOMINION UNIVERSITY	FRYDENLUND, E.	9010.3	371	3,565	-	-	3,936	-		3,936	VMASC

100710-010	*	NAVAL SPEC WARFARE DEVELOPMENT GROUP	GARCIA, H.	9010.3	-	-	-	-	-	(0)	(0)	VMASC
500391-010	*	CAMBER CORPORATION	GAY, B.	9010.3	15,687	-	-	-	15,687	10,197	25,884	VMASC
300490-010	*	OLD DOMINION UNIVERSITY	GILES, B.	9010.3	26,623	3,750	-	-	30,373	-	30,373	VMASC
100790-010	*	NAVAL SEA SYSTEMS COMMAND	GORE, R.	9010.3	15,979	1,757	-	1,020	18,756	11,528	30,284	VMASC
300446-010	*	OLD DOMINION UNIVERSITY	GORE, R.	9010.3	(423)	-	-	-	(423)	-	(423)	VMASC
500375-001	*	CAMBER CORPORATION	GORE, R.	9010.3	41,526	-	-	-	41,526	26,992	68,518	VMASC
500376-010	*	CAMBER CORPORATION	GORE, R.	9010.3	9,218	-	-	55	9,273	6,027	15,300	VMASC
500391-010	*	CAMBER CORPORATION	GORE, R.	9010.3	15,687	-	-	-	15,687	10,197	25,884	VMASC
600201-010	*	UNIVERSITY OF AGDER	GORE, R.	9010.3	21,940	6	-	-	21,946	12,070	34,016	VMASC
200252-010	*	VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	GORE, R.	9010.3	(0)	-	-	-	(0)	(0)	(0)	VMASC
400328-010	*	BATTELLE CORPORATION	GORE, R.	9010.3	1,618	-	-	-	1,618	890	2,507	VMASC
500362-010	*	G2 OPS, INC.	GORE, R.	9010.3	(0)	-	-	0	(0)	(0)	(0)	VMASC
300490-010	*	OLD DOMINION UNIVERSITY	JORDAN, C.	9010.3	22,820	3,214	-	-	26,034	-	26,034	VMASC
100790-010	*	NAVAL SEA SYSTEMS COMMAND	LYNCH, C.	9010.3	15,979	1,757	-	1,020	18,756	11,528	30,284	VMASC
100800-010	*	NAVAL AIR WARFARE CENTER TSD	LYNCH, C.	9010.3	2,611	376	-	-	2,987	1,941	4,928	VMASC
400351-010	*	CENTER FOR MIND AND CULTURE	LYNCH, C.	9010.3	2,248	985	-	-	3,233	485	3,718	VMASC
100534-010		OFFICE OF NAVAL RESEARCH	MICHAELI, J.	9010.3	5,329	-	-	-	5,329	2,824	8,153	VMASC
100588-010	*	OFFICE OF NAVAL RESEARCH	MICHAELI, J.	9010.3	27,496	356	-	4,824	32,675	18,103	50,779	VMASC
100725-010		OFFICE OF NAVAL RESEARCH	MICHAELI, J.	9010.3	35,378	-	-	3,414	38,792	19,458	58,250	VMASC
300463-010		OLD DOMINION UNIVERSITY	MICHAELI, J.	9010.3	394,958	61,765	-	145,000	601,723	-	601,723	VMASC
100552-010	*	NATIONAL SCIENCE FOUNDATION	NELSON, M.	6093.3	17,168	1,778	-	2,023	20,969	10,042	31,010	VMASC
100552-010	*	NATIONAL SCIENCE FOUNDATION	NELSON, M.	6093.3	18,782	1,484	5,000	1,674	26,941	10,741	37,682	VMASC
100676-010	*	NATIONAL ENDOWMENT FOR THE HUMANITIES	NELSON, M.	6093.3	3,024	2,231	-	-	5,255	2,890	8,145	VMASC
300472-010		VA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY	NELSON, M.	6093.3	6,081	-	-	-	6,081	3,345	9,426	VMASC
100519-010	*	INSTITUTE OF MUSEUM AND LIBRARY SERVICES	NELSON, M.	6093.3	11,918	-	-	15,000	26,918	6,317	33,234	VMASC
100519-010	*	INSTITUTE OF MUSEUM AND LIBRARY SERVICES	NELSON, M.	6093.3	2,345	1,520	-	-	3,864	2,048	5,912	VMASC
100676-010	*	NATIONAL ENDOWMENT FOR THE HUMANITIES	NELSON, M.	6093.3	3,192	-	-	-	3,192	1,755	4,947	VMASC
300380-010	*	OLD DOMINION UNIVERSITY	NELSON, M.	6093.3	36,021	2,563	-	13,657	52,241	-	52,241	VMASC
300380-010	*	OLD DOMINION UNIVERSITY	NELSON, M.	6093.3	22,552	6,871	-	16,949	46,372	-	46,372	VMASC
300328-010		NORFOLK STATE UNIVERSITY	PADILLA, J.	9010.3	106,098	1,719	-	8,330	116,148	57,143	173,291	VMASC
300445-010	*	OLD DOMINION UNIVERSITY	PADILLA, J.	9010.3	371	3,565	-	-	3,936	-	3,936	VMASC
500342-001	*	WR SYSTEMS, LTD.	PAPELIS, Y,	9010.3	39,589	-	-	5,262	44,850	29,153	74,004	VMASC
100521-010	*	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	PAPELIS, Y.	9010.3	-	(554)	-	-	(554)	(144)	(698)	VMASC
100601-010	*	U.S. DEPARTMENT OF EDUCATION	PAPELIS, Y.	9010.3	61,305	13,556	-	10,815	85,675	19,464	105,139	VMASC
300518-010	*	OLD DOMINION UNIVERSITY	PAPELIS, Y.	9010.3	10,372	-	-	-	10,372	415	10,787	VMASC
500341-001	*	APPLIED RESEARCH ASSOCIATES, INC.	PAPELIS, Y.	9010.3	(37)	-	-	0	(37)	(20)	(57)	VMASC
500350-010		SIMIS, INC.	PAPELIS, Y.	9010.3	-	27,063	7,202	-	34,265	-	34,265	VMASC
300446-010	*	OLD DOMINION UNIVERSITY	PARODI, V.	9010.3	(634)	-	-	-	(634)	-	(634)	VMASC
300490-010	*	OLD DOMINION UNIVERSITY	PARODI, V.	9010.3	7,607	1,071	-	-	8,678	-	8,678	VMASC
500368-010		PREVAILANCE, INC.	RECHOWICZ, K	9010.3	20,532	-	-	-	20,532	13,346	33,878	VMASC
500368-020		PREVAILANCE, INC.	RECHOWICZ, K	9010.3	11,591	-	-	-	11,591	7,534	19,125	VMASC
100710-010	*	NAVAL SPEC WARFARE DEVELOPMENT GROUP	RECHOWICZ, K.	9010.3	-	-	-	-	-	(0)	(0)	VMASC
100531-001	*	NAVAL SEA SYSTEMS COMMAND	ROBINSON, R.	9010.3	(1)	-	-	-	(1)	(1)	(1)	VMASC
200244-011	*	VA PORT AUTHORITY	ROBINSON, R.	9010.3	-	-	-	-	-	0	0	VMASC
300258-010	*	UNIVERSITY OF MARYLAND	ROBINSON, R.	9010.3	-	623	-	-	623	330	953	VMASC
300462-010	*	OLD DOMINION UNIVERSITY	ROBINSON, R.	9010.3	134,472	38,140	-	369,045	541,657	-	541,657	VMASC

100617-010	AIR FORCE MATERIAL COMMAND	SHETTY, S.	4075	21,728	21,115	-	75,000	117,843	23,563		141,406		VMASC
100728-010	AIR FORCE MATERIAL COMMAND	SHETTY, S.	4075	48,388	61,621	-	32,340	142,349	60,505		202,855		VMASC
200273-010	CENTER FOR INNOVATIVE TECHNOLOGY	SHETTY, S.	4075	77,366	-	-	614	77,980	23,210		101,190		VMASC
300388-010	NORFOLK STATE UNIVERSITY	SHETTY, S.	4075	63,106	11,201	-	29,404	103,711	40,869		144,580		VMASC
300390-010	UNIVERSITY OF ILLINOIS (ALL CAMPUSES)	SHETTY, S.	4075	33,274	49,498	-	29,730	112,502	45,524		158,026		VMASC
300397-010	UNIVERSITY OF ILLINOIS (ALL CAMPUSES)	SHETTY, S.	4075	2,676	18,361	-	1,923	22,961	11,571		34,531		VMASC
300514-010	UNIVERSITY OF ILLINOIS (ALL CAMPUSES)	SHETTY, S.	4075	31,281	-	-	-	31,281	8,133		39,414		VMASC
400358-010	SENTARA HOSPITALS	SHETTY, S.	4075	134,035	56,918	-	-	190,953	105,024		295,977		VMASC
500391-010	* CAMBER CORPORATION	SHULL, J.	9010.3	15,687	-	-	-	15,687	10,197		25,884		VMASC
100629-010	NORFOLK NAVAL SHIPYARD	WEISEL, E.	9010.3	-	17,632	-	-	17,632	5,642		23,274		VMASC
100634-010	NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	9010.3	4,819	-	-	718,476	723,295	1,735		725,030		VMASC
100642-010	NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	9010.3	-	-	-	(116)	(116)	-		(116)		VMASC
100643-010	NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	9010.3	-	-	-	-	-	(0)		(0)		VMASC
100647-010	NAVSUP FLEET LOGISTICS CENTER NORFOLK	WEISEL, E.	9010.3	4,819	55,984	-	-	60,803	21,889		82,692		VMASC
400193-000	NONE	WEISEL, E.	9010.3	2,094	46,058	-	89	48,241	-		48,241		VMASC
500339-010	OCEAN BAY, LLC	WEISEL, E.	9010.3	45,099	1,313	-	-	46,413	25,527		71,939		VMASC
500379-010	D'ANGELO TECHNOLOGIES LLC	WEISEL, E.	9010.3	21,376	-	-	-	21,376	13,894		35,271		VMASC
				2,041,761	556,346	12,202	1,548,787	4,159,095	913,804	-	5,072,899	21.97%	
				4,684,545	**1,364,822**	**1,571,663**	**2,944,359**	**10,565,389**	**2,523,055**	**-**	**13,088,444**	**23.88%**	

SCHEDULE 6

Sponsored Program Activity

Proposals Submitted and Awards Funded

Fiscal Year 2019 through Fiscal Year 2015

SCHEDULE 6

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF PROPOSAL AND AWARD ACTIVITY
FISCAL YEAR 2019 THROUGH FISCAL YEAR 2015

	PROPOSALS SUBMITTED					AWARDS FUNDED				
	FY 19	FY 18	FY 17	FY 16	FY 15	FY 19	FY 18	FY 17	FY 16	FY 15
COLLEGE OF ARTS & LETTERS										
Art	$ 5,000	$ -	$ -	$ -	$ -	$ 2,250	$ -	$ -	$ -	$ -
Communication & Theatre Arts	383,136	98,956	418,145	43,829	252,579	-	-	-	30,340	22,500
English	-	4,000	-	712,206	125,456	149,094	146,385	128,777	1,000	46,956
Foreign Languages & Literatures	-	-	-	-	89,078	-	-	-	-	-
History	-	75,000	54,630	6,300	100,000	-	75,000	60,930	-	-
Music	-	-	-	-	4,600	-	-	-	-	-
Philosophy & Religious Studies	25,768	18,680	19,980	67,565	77,305	19,220	-	-	18,612	-
Political Science & Geography	3,174,901	629,132	3,330,522	186,390	836,072	63,475	100,415	64,773	81,285	17,500
Social Science Research Center	1,202,714	281,686	591,003	461,893	3,345,297	200,263	193,540	167,967	206,114	60,000
Sociology & Criminal Justice	1,293,575	1,588,925	610,177	3,878,504	3,127,178	1,079,904	599,664	951,946	442,507	2,000
Women's Studies	-	-	-	-	-	-	18,886	-	-	-
Dean's Office	4,950	4,950	96,363	58,025	-	2,000	-	-	-	-
College Total	$ 6,090,044	$ 2,701,328	$ 5,120,820	$ 5,414,712	$ 7,957,564	$ 1,516,206	$ 1,133,890	$ 1,374,393	$ 779,858	$ 148,956
% Change from prior year	125.45%	-47.25%	-5.43%	-31.96%	15.45%	33.72%	-17.50%	76.24%	423.55%	-59.62%
Average yearly increase (decrease)	-2.33%					62.21%				
STROME COLLEGE OF BUSINESS										
Business Administration	$ -	$ -	$ -	$ 2,500	$ -	$ -	$ -	$ -	$ 2,500	$ -
Economics	184,407	131,296	2,684,711	473,697	10,834	153,732	100,000	113,137	83,615	85,997
Finance, Insurance and Real Estate	-	-	-	-	614,859	-	-	-	-	-
Information Systems/Decision Science	1,147,060	1,644,963	3,035,573	2,222,702	2,783,518	196,604	338,655	296,496	18,612	186,997
Management	19,325	-	-	-	-	-	-	-	-	-
Marketing	569,068	-	243,271	286,630	-	-	-	15,000	14,999	-
School of Public Service	354,399	565,023	236,694	569,923	363,993	40,734	45,128	17,425	77,738	-
College Total	$ 2,274,258	$ 2,341,282	$ 6,200,248	$ 3,555,452	$ 3,773,205	$ 391,070	$ 483,782	$ 442,058	$ 197,464	$ 272,994
% Change from prior year	-2.86%	-62.24%	74.39%	-5.77%	31.08%	-19.16%	9.44%	123.87%	-27.67%	13.47%
Average yearly increase (decrease)	-4.20%					12.51%				

SCHEDULE 6

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF PROPOSAL AND AWARD ACTIVITY
FISCAL YEAR 2019 THROUGH FISCAL YEAR 2015

	PROPOSALS SUBMITTED					AWARDS FUNDED				
	FY 19	FY 18	FY 17	FY 16	FY 15	FY 19	FY 18	FY 17	FY 16	FY 15
DARDEN COLLEGE OF EDUCATION & PROFESSIONAL STUDIES										
Center for Educ Partnerships	$ 7,686,923	$ 22,940,225	$ 6,650,683	$ 7,772,693	$ 4,552,356	$ 999,240	$ 39,049	$ 34,404	$ 725,198	$ 296,328
Communication Disorders and Special Education	12,497,236	8,552,305	16,834,358	7,622,526	8,570,881	4,965,604	3,824,280	4,292,759	3,539,575	3,386,586
Counseling and Human Services	1,281,136	1,390,103	1,533,580	645,822	1,754,803	339,269	334,421	369,333	73,835	176,362
Educational Foundations and Leadership	1,785,834	325,492	2,324,355	2,382,606	1,224,373	151,612	395,910	231,430	75,768	153,738
Human Movement Sciences	1,440,098	156,884	877,430	1,927,374	255,247	59,981	24,715	62,765	34,441	82,648
STEM Education and Professional Studies	1,538,044	2,039,326	1,894,113	3,048,362	3,165,398	345,267	358,351	376,911	470,534	251,662
Teaching and Learning	2,895,005	1,657,126	1,259,055	3,040,287	1,799,602	460,392	32,000	245,308	-	790,864
Dean's Office	619,314	702,703	4,183,851	823,334	872,701	291,720	468,185	784,748	776,000	472,536
College Total	$ 29,743,590	$ 37,764,164	$ 35,557,426	$ 27,263,004	$ 22,195,361	$ 7,613,085	$ 5,476,911	$ 6,397,658	$ 5,695,350	$ 5,610,724
% Change from prior year	-21.24%	6.21%	30.42%	22.83%	-43.06%	39.00%	-14.39%	12.33%	1.51%	-7.43%
Average yearly increase (decrease)	-4.74%					5.12%				
BATTEN COLLEGE OF ENGINEERING & TECHNOLOGY										
Applied Research Center - ARC	$ -	$ -	$ 197,900	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Center for Advanced Engineering Environments	-	-	-	-	-	-	-	-	-	590,469
Civil & Environmental Engineering	11,204,420	11,070,179	9,811,865	9,094,065	5,166,059	311,001	562,086	1,147,780	1,726,005	-
Electrical & Computer Engineering	22,941,179	18,663,198	15,438,102	13,939,958	17,739,574	4,411,614	3,286,824	2,723,430	2,289,620	2,509,953
Engineering Career Management Center	-	-	-	-	5,619,632	-	-	-	-	-
Engineering Management	5,908,403	8,964,742	10,490,564	2,742,809	-	1,090,196	736,806	446,196	157,466	810,804
Engineering Technology	4,781,795	6,841,175	13,828,359	6,568,428	5,376,504	1,108,725	1,469,064	312,765	1,669,592	383,531
Mechanical & Aerospace Engineering	21,313,788	9,837,146	5,813,200	5,971,306	12,040,934	1,830,812	1,148,510	978,171	1,366,851	1,429,282
Computation Modeling & Simulation Engineering	11,124,615	11,870,761	11,632,827	26,217,111	9,431,733	2,099,288	2,245,758	2,594,582	2,249,559	3,555,337
VA Commercial Space Flight Authority	-		-	-	-	-	-	-	-	12,071,426
Dean's Office	3,945,886	2,196,972	4,218,917	996,955	13,677,760	686,868	1,217,236	1,593,522	334,999	50,000
College Total	$ 81,220,086	$ 69,444,173	$ 71,431,734	$ 65,530,632	$ 69,052,195	$ 11,538,505	$ 10,666,284	$ 9,796,447	$ 9,794,091	$ 21,400,803
% Change from prior year	16.96%	-2.78%	9.01%	-5.10%	11.45%	8.18%	8.88%	0.02%	-54.23%	-18.33%
Average yearly increase (decrease)	6.22%					-11.19%				

SCHEDULE 6

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF PROPOSAL AND AWARD ACTIVITY
FISCAL YEAR 2019 THROUGH FISCAL YEAR 2015

	PROPOSALS SUBMITTED					AWARDS FUNDED				
	FY 19	FY 18	FY 17	FY 16	FY 15	FY 19	FY 18	FY 17	FY 16	FY 15
COLLEGE OF HEALTH SCIENCES										
Community & Environmental Health	$ 2,320,772	$ 1,920,808	$ 2,422,111	$ 1,552,092	$ 2,382,036	$ 195,175	$ 108,495	$ 227,814	$ 106,949	$ 86,680
Dental Hygiene	378,631	248,698	330,369	1,085,532	680,315	24,580	21,347	21,380	35,322	84,050
Medical Diagnostic & Translation Sciences	8,367,895	7,401,738	14,773,634	3,651,458	12,477,283	2,054,167	1,016,435	879,152	2,147,602	1,461,533
Nursing	4,003,517	741,252	1,949,918	4,407,576	2,524,806	689,031	902,948	1,928,280	1,801,399	1,248,605
School of Rehabilitative Sciences	283,519	2,160,993	3,218,919	1,417,021	634,050	72,727	-	88,183	12,779	209,912
Dean's Office	5,000	34,320	295,366	579,594	1,109,558	35,534	332,822	-	-	15,000
College Total	$ 15,359,333	$ 12,507,808	$ 22,990,316	$ 12,693,272	$ 19,808,047	$ 3,071,213	$ 2,382,046	$ 3,144,809	$ 4,104,051	$ 3,105,780
% Change from prior year	22.80%	-45.60%	81.12%	-35.92%	2.58%	28.93%	-24.25%	-23.37%	32.14%	107.56%
Average yearly increase (decrease)	-4.09%					21.05%				
COLLEGE OF SCIENCES										
Biological Sciences	$ 19,669,550	$ 20,180,662	$ 21,225,853	$ 19,806,536	$ 20,545,968	$ 1,614,083	$ 8,630,596	$ 2,156,245	$ 2,372,424	$ 1,582,361
Center for Coastal Physical Oceanography	491,479	1,505,198	6,905,188	4,265,269	5,606,910	491,878	984,115	483,646	640,905	356,119
Chemistry and Biochemistry	12,899,711	10,074,984	110,099,209	124,085,044	13,398,330	1,260,811	1,755,060	3,142,914	1,935,570	2,827,521
Computer Science	9,285,954	9,280,151	5,577,469	7,474,239	12,097,893	1,009,917	754,950	1,167,987	2,293,408	3,424,949
Mathematics and Statistics	3,621,630	7,666,647	3,261,498	3,494,460	3,722,864	987,478	809,420	607,848	406,255	485,547
Ocean, Earth & Atmospheric Sciences	7,595,972	7,955,365	13,842,728	19,028,932	13,837,812	2,701,640	2,311,194	4,093,621	3,700,789	2,942,012
Physics	5,893,239	9,097,709	10,824,028	14,332,714	6,155,595	4,301,120	3,208,820	2,499,353	3,325,122	3,768,552
Psychology	4,398,299	9,321,721	8,336,627	1,958,008	12,080,538	982,538	1,010,540	1,477,708	1,822,824	865,194
Dean's Office	1,824,722	-	643,150	-	361,500	-	33,600	-	-	-
College Total	$ 65,680,557	$ 75,082,437	$ 180,715,749	$ 194,445,201	$ 87,807,410	$ 13,349,465	$ 19,498,294	$ 15,629,323	$ 16,497,298	$ 16,252,254
% Change from prior year	-12.52%	-58.45%	-7.06%	121.45%	-59.04%	-31.54%	24.75%	-5.26%	1.51%	28.58%
Average yearly increase (decrease)	-13.87%					1.12%				

SCHEDULE 6

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
SUMMARY OF PROPOSAL AND AWARD ACTIVITY
FISCAL YEAR 2019 THROUGH FISCAL YEAR 2015

	PROPOSALS SUBMITTED					AWARDS FUNDED				
	FY 19	FY 18	FY 17	FY 16	FY 15	FY 19	FY 18	FY 17	FY 16	FY 15
OFFICE OF RESEARCH AND OTHER UNITS										
Office of Research	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
VMASC: Virginia Modeling, Analysis	9,764,942	25,179,745	24,853,771	21,340,031	30,809,977					
& Simulation Center			-	-	-	3,429,836	2,530,191	1,107,570	1,524,927	1,506,024
Frank Reidy Research Center for Bioelectrics	8,583,737	17,801,256	21,092,036	24,452,423	26,309,702	3,136,897	2,998,236	2,398,392	3,792,085	2,122,087
Institute for Innovation & Entrepreneurship	3,379,780	2,415,998	918,265	3,086,737	2,912,549	1,034,847	1,024,493	2,122,192	1,826,114	815,531
The Graduate School	3,225,288	1,767,104	-	-	-	139,237	750,568			
Micellaneous Units	4,344,078	3,771,939	5,163,059	6,127,395	983,823	1,429,573	470,002	1,706,003	581,113	506,581
Office of Research and Other Units Total	$ 29,297,825	$ 50,936,042	$ 52,027,131	$ 55,006,587	$ 61,016,051	$ 9,170,390	$ 7,773,490	$ 7,334,156	$ 7,724,240	$ 4,950,223
% Change from prior year	-42.48%	-2.10%	-5.42%	-9.85%	26.72%	17.97%	5.99%	-5.05%	56.04%	-41.37%
Average yearly increase (decrease)	-7.83%					1.72%				
TOTAL UNIVERSITY ACTIVITY	$ 229,665,693	$ 250,777,234	$ 374,043,425	$ 363,908,861	$ 271,609,834	$ 46,649,934	$ 47,414,697	$ 44,118,845	$ 44,792,351	$ 51,741,734
% CHANGE FROM PRIOR YEAR	-8.42%	-32.96%	2.78%	33.98%	-30.81%	-1.61%	7.47%	-1.50%	-13.43%	-6.69%
Average yearly increase (decrease)	-8.30%					-3.18%				
AFFILIATED UNITS										
VA Tidewater Consortium for Higher Education	$ 306,369	$ 125,615	$ 630,744	$ 2,390,142	$ 10,542,015	$ 661,684	$ 641,939	$ 517,182	$ 605,170	$ 577,534
VA Space Grant Consortium	3,758,640	4,900,217	2,147,569	4,874,897	6,988,483	1,697,358	2,158,725	4,361,998	1,877,883	3,299,640
Total Affiliated Units	$ 4,065,009	$ 5,025,832	$ 2,778,313	$ 7,265,039	$ 17,530,498	$ 2,359,042	$ 2,800,664	$ 4,879,180	$ 2,483,053	$ 3,877,174
% Change from prior year	-19.12%	80.90%	-61.76%	-58.56%	369.35%	-15.77%	-42.60%	96.50%	-35.96%	-38.24%
Average yearly increase (decrease)	1.77%					-12.48%				
GRAND TOTAL	$ 233,730,702	$ 255,803,066	$ 376,821,737	$ 371,173,899	$ 289,140,332	$ 49,008,976	$ 50,215,361	$ 48,998,025	$ 47,275,404	$ 55,618,908
% CHANGE FROM PRIOR YEAR	-8.63%	-32.12%	1.52%	28.37%	-27.04%	-2.40%	2.48%	3.64%	-15.00%	-9.90%
Average yearly increase (decrease)	-8.20%					-4.12%				