



# Old Dominion University Research Foundation

To: Distribution

From: Julian F. Facenna  
Executive Director

Date: November 13, 2018

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

Attached please find the Annual Report of Sponsored Program Activity for the fiscal year ended June 30, 2018. This report measures sponsored program activity administered through Old Dominion University Research Foundation by amount of actual expenditures (direct costs and indirect cost recoveries) incurred during the fiscal year. Unrecovered indirect cost is not included in this report. This report includes sponsored program activity administered by the Research Foundation for Old Dominion University and for certain independent entities affiliated with the University. Included in the report is a schedule of proposals submitted and awards funded for the fiscal year ended June 30, 2018 and the four previous fiscal years. Proposal activity is based upon the total 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 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 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:

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

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

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

- x Activity of individual faculty conducting research through university-wide enterprise centers is reflected under the faculty member's 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.
- x University departments (including SSRP's center activity) exceeding \$1 million for the fiscal year were:

Chart A – Research Expenditures for University Units Excluding Affiliates

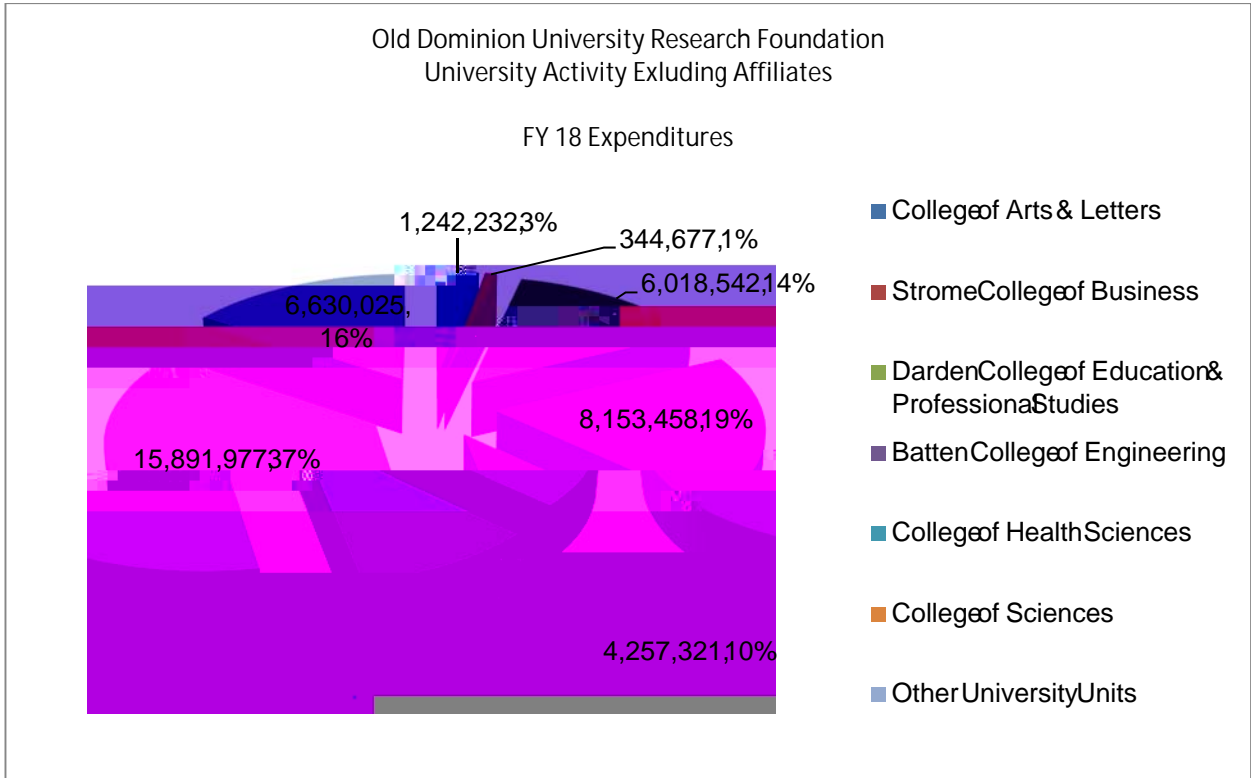
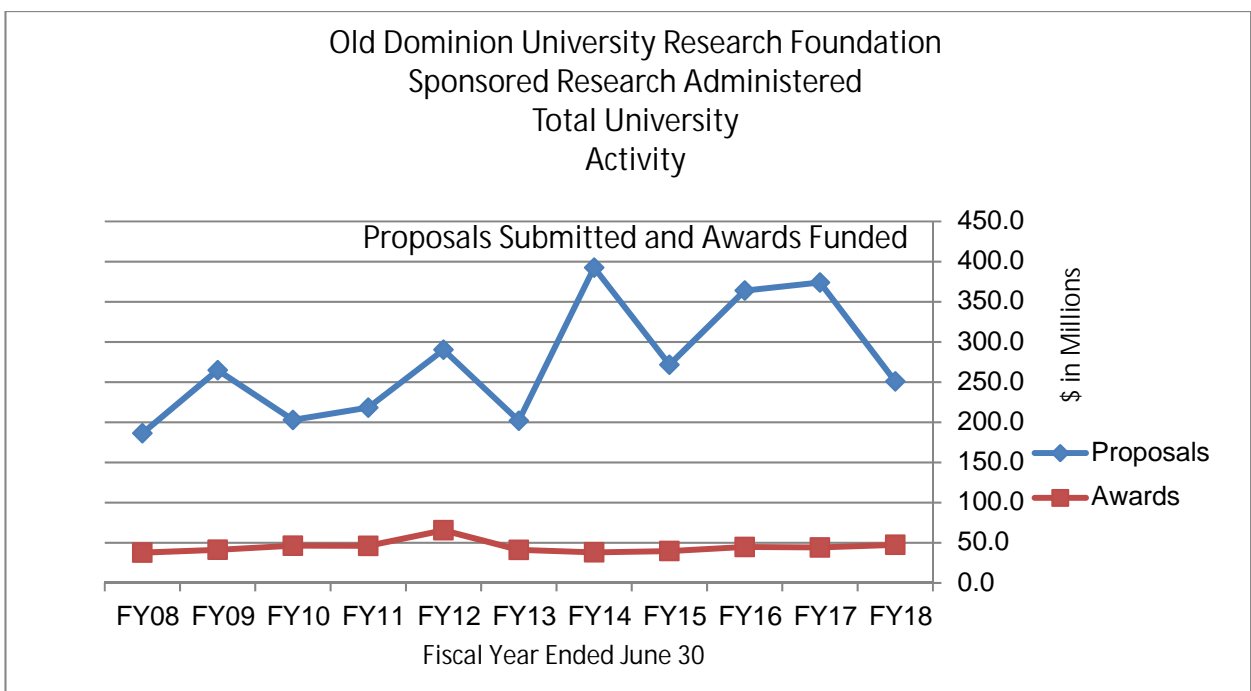


Chart B – Proposals Submitted and Awards Funded



**DISTRIBUTION**

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

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## SCHEDULE 1

Summary of Sponsored Program Activity

Fiscal Year 2018 through Fiscal Year 2013

# SCHEDULE 1

## OLD DOMINION UNIVERSITY RESEARCH FOUNDATION SUMMARY OF SPONSORED PROGRAM ACTIVITY

(MEASURED BY EXPENDITURES INCURRED)  
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2013

FY 18

FY 17

FY 16

FY 15

FY 14

FY 13

**SCHEDULE 1**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF SPONSORED PROGRAM ACTIVITY**



## SCHEDULE 1

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

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

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

SCHEDULE 2

Summary of University Activity

Major Funding Source

Fiscal Year 2018 through Fiscal Year 2014

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

FUNDING SOURCE / AGENCY

FY18  
Percent of

FY17

FY16

FY15

FY14

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

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

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

FUNDING SOURCE / AGENCY	FY18		FY17		FY16		FY15		FY14			
	Amount	Percent of Total	Amount	Percent of Total	Amount	Percent of Total	Amount	Percent of Total	Amount	Percent of Total		
<b>PRIVATE AND OTHER SPONSORS</b>												
Jefferson Science Associates	\$ 1,004,818	2.2%	\$ 1,178,928	2.5%	\$ 1,164,984	2.5%	\$ 1,061,585	2.5%	\$ 1,040,048	2.4%		
Pulse Biosciences, Inc.	906,568	1.9%	854,008	1.8%	1,006,931	2.2%	214,159	0.5%	-	0.0%		
National Institute of Aerospace	469,843	1.0%	473,785	1.0%	459,190	1.0%	319,519	0.7%	251,851	0.6%		
University of Southampton	463,067	1.0%	594,160	1.3%	606,869	1.3%	613,368	1.4%	125,447	0.3%		
The National Academies	398,008	0.9%	37,576	0.1%	-	0.0%	-	0.0%	3,963	0.0%		
World Conservation Union (IUCN)	188,617	0.4%	213,108	0.5%	152,773	0.3%	134,104	0.3%	72,603	0.2%		
Genedge Alliance (formerly Philpott Manufacturing)	179,259	0.4%	307,053	0.7%	259,820	0.6%	223,265	0.5%	145,990	0.3%		
CACI, Inc.--Federal	163,551	0.4%	-	0.0%	-	0.0%	-	0.0%	-	0.0%		
Non-Disclosed	157,383	0.3%	181,808	0.4%	170,200	0.4%	136,827	0.3%	-	0.0%		
Center for Mind and Culture	155,875	0.3%	-	0.0%	-	0.0%	-	0.0%	-	0.0%		
Ferring Pharmaceuticals Inc.	135,072	0.3%	43,345	0.1%	-	0.0%	-	0.0%	-	0.0%		
WR Systems LTD	119,355	0.3%	-	0.0%	-	0.0%	19,030	0.0%	151,285	0.4%		
Camber Corporation	115,206	0.2%	-	0.0%	-	0.0%	-	0.0%	-	0.0%		
Jeffress	112,751	0.2%	123,323	0.3%	90,880	0.2%	75,561	0.2%	48,782	0.1%		
Applied Research Associates, Inc.	109,811	0.2%	-	0.0%	-	0.0%	-	0.0%	-	0.0%		
Engility	94,136	0.2%	126,096	0.3%	85,513	0.2%	-	0.0%	-	0.0%		
Opportunity, Inc.	91,583	0.2%	-	0.0%	14,376	0.0%	118,474	0.3%	93,313	0.2%		
The Geneva Foundation	90,574	0.2%	227,252	0.5%	110,173	0.2%	-	0.0%	-	0.0%		
Battelle Corporation	90,337	0.2%	152,594	0.3%	41,146	0.1%	-	0.0%	51,114	0.1%		
Plasser American Corporation	87,212	0.2%	10,307	0.0%	-	0.0%	-	0.0%	-	0.0%		
Vr Rehab, Inc.	85,746	0.2%	-	0.0%	-	0.0%	-	0.0%	-	0.0%		
Ocean Bay, LLC	85,398	0.2%	-	0.0%	-	0.0%	-	0.0%	-	0.0%		
Sentara Hospitals	81,296	0.2%	(245)	0.0%	56,745	0.1%	63,766	0.1%	-	0.0%		
Commonwealth Center for Advanced Manufacturing	70,423	0.2%	148,902	0.3%	117,383	0.3%	138,773	0.3%	-	0.0%		
Midland GIS Solutions	66,996	0.1%	-	0.0%	-	0.0%	-	0.0%	-	0.0%		
NATO	56,000	0.1%	56,800	0.1%	-	0.0%	-	0.0%	-	0.0%		
Blue Moon Fund	48,955	0.1%	147,305	0.3%	166,253	0.4%	-	0.0%	-	0.0%		
Qatar University	27,745	0.1%	84,255	0.2%	127,698	0.3%	25,861	0.1%	50,312	0.1%		
Dominion Resources Services, Inc.	19,068	0.0%	(2,504)	0.0%	158,722	0.3%	122,159	0.3%	169,877	0.4%		
Lifenet	45	0.0%	100,905	0.2%	The Center for Health and Human Performance	(19,030)	TJ 17.1896	0	TD [(9,057,735)]	(100%)	[(100,905)]	[(35.5%) -69,291]

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

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

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

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

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

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

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



## SCHEDULE 3

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

Fiscal Year 2018 through Fiscal Year 2016

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

TOTAL DIRECT COSTS	Fiscal Year 2018 TOTAL	Fiscal Year 2017	Fiscal Year 2016
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SCHEDULE 3

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

	Fiscal Year 2018				Fiscal Year 2017				Fiscal Year 2016			
	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate
COLLEGE OF SCIENCES Dean's Office	\$ -	\$ -	\$ -	0.0%	\$ -	\$ -	\$ -	0.0%	\$ 1,314	\$ 105	\$ 1,420	

SCHEDULE 4

Sponsored Program Activity

Individual Project Listing

Fiscal Year 2018

SCHEDULE 4

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

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	PROJECT DIRECT COST			TOTAL DIRECT COSTS	PROJECT IDC AND FEES		TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
				SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER		REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES			
COLLEGE OF ARTS AND LETTERS												
English												
200211-010	NORFOLK COMMISSION ON THE ARTS & HUMANITIES	PEERY, J.	-	-	-	314.00	314.00	-	-	314.00	-	TRAD
400363-010	ASSOCIATION FOR COMPUTING MACHINERY	RICHARDS, D.	-	710.00	-	-	710.00	-	-	710.00	-	TRAD
300396-010	* OLD DOMINION UNIVERSITY	ZAREVA, A.	45,340.70	28,244.06	-	26,267.23	99,852.00	5,886.78	-	105,738.78	-	TRAD
			45,340.70	28,954.06	-	26,581.23	100,876.00	5,886.78	-	106,762.78	5.84%	
History												
300426-010	UNIVERSITY OF MICHIGAN	NUTZMAN, M.	20,116.24	-	-	-	20,116.24	-	-	20,116.24	-	300426-010

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, &	PROJECT DIRECT COST	PROJECT IDC AND FEES	TOTAL COSTS
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**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT**  
(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

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



SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, PROJECT DIRECT COST	PROJECT IDC AND FEES	TOTAL COSTS
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SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	PROJECT DIRECT COST	PROJECT IDC AND FEES	TOTAL COSTS
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**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT**  
(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

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

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS			
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
STEM Education and Professional Studies												
100599-010	* OFFICE OF NAVAL RESEARCH	ARCAUTE, K.	12,565.48	2,405.61	-	-	14,971.09	8,523.61		23,494.70		TRAD
100702-010	* NATIONAL SCIENCE FOUNDATION	ARCAUTE, K.	2,925.84	848.28	-	-	3,774.12	2,075.77		5,849.89		TRAD
300395-010	UNIVERSITY OF MARYLAND	DISCALA, J.	9,363.89	-	-	-	9,363.89	5,150.14				





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

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST					PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
Electrical and Computer Engineering												
300311-010	ROCHESTER INSTITUTE OF TECHNOLOGY	BAILEY, C.	15,989.29	922.49	-	-	16,911.78	8,963.24		25,875.02		TRAD
300431-010	UNIVERSITY OF VIRGINIA	BELFORE, L.	-	5,468.03	6,509.50	-	11,977.53	-		11,977.53		TRAD
100256-010	* NATIONAL SCIENCE FOUNDATION	CHEN, C.	455.26	329.33	-	9,300.00	10,084.60	415.84		10,500.43		TRAD
400271-003	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	GONZALEZ, O.	22,441.79	1,521.34	-	6,649.00	30,612.13	6,230.42		36,842.55		TRAD
400345-010	NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES (NIA)	GONZALEZ, O.	19,668.59	-	-	-	19,668.59	5,113.83		24,782.42		TRAD
100458-010	* NATIONAL SCIENCE FOUNDATION	HAO, Z.	281.22	(159.81)	-	-	121.41	64.34		185.75		TRAD
100238-010	NATIONAL SCIENCE FOUNDATION	IFTEKHARUDDIN, K.	-	(950.81)	-	7.45	(943.36)	(498.99)		(1,442.35)		TRAD
100339-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	IFTEKHARUDDIN, K.	(357.24)	-	-	-	(357.24)	(189.34)		(546.58)		TRAD
100594-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	IFTEKHARUDDIN, K.	109,931.49	52,500.81	25,000.00	19,645.99	207,078.29	89,337.77		296,416.06		TRAD
100659-010	ARMY CONTRACTING COMMAND	IFTEKHARUDDIN, K.	20,055.73	25,000.00	-	37,894.40	82,950.13	24,780.64		107,730.77		TRAD
300305-012	* UNIVERSITY OF VIRGINIA	IFTEKHARUDDIN, K.	4,965.07	72.26	-	-	5,037.33	2,669.79		7,707.12		TRAD
300305-019	* UNIVERSITY OF VIRGINIA	IFTEKHARUDDIN, K.	13,182.71	106.06	-	-	13,288.77	7,308.82		20,597.59		TRAD
400240-005	COMMONWEALTH CENTER FOR ADVANCED MANUFACTURING	IFTEKHARUDDIN, K.	22,174.22	2,083.14	-	-	24,257.36	8,490.08		32,747.44		TRAD
400240-006	COMMONWEALTH CENTER FOR ADVANCED MANUFACTURING	IFTEKHARUDDIN, K.	24,234.86	94.72	-	6,210.00	30,539.58	6,325.70		36,865.28		TRAD
100494-010	NATIONAL SCIENCE FOUNDATION	KRUSIENSKI, D.	9,442.89	678.15	-	-	10,121.04	5,364.14		15,485.18		TRAD
100613-010	NATIONAL SCIENCE FOUNDATION	KRUSIENSKI, D.	28,468.33	25,304.03	-	4,800.00	58,572.36	29,574.80		88,147.16		TRAD
300304-010	NORTH CAROLINA STATE UNIVERSITY	KRUSIENSKI, D.	52,224.06	3,716.44	-	-	55,940.50	29,648.45		85,588.95		TRAD
300415-010	OLD DOMINION UNIVERSITY	KRUSIENSKI, D.	-	148.32	-	4,851.68	5,000.00	-		5,000.00		TRAD
300422-010	OLD DOMINION UNIVERSITY	KRUSIENSKI, D.	14,619.33	-	-	-	14,619.33	4,385.80		19,005.13		TRAD
500309-010	OCEAN BAY, LLC	KRUSIENSKI, D.	3,871.00	-	-	-	3,871.00	2,129.00		6,000.00		TRAD
100583-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	LAI, N.	-	(209.24)	-	-	(209.24)	(16.74)		(225.98)		TRAD
500154-010	COVIDIEN SURGICAL SOLUTIONS, INC.	LAROUSI, M.	-	-	-	234.30	234.30	124.18		358.48		TRAD
100648-010	* NATIONAL SCIENCE FOUNDATION	LI, J.	1,500.79	1,995.81	-	20,190.04	23,686.64	1,923.13		25,609.76		TRAD
100656-010	* NASA GODDARD SPACEFLIGHT CENTER	LI, J.	28,035.10	2,745.72	-	-	30,780.82	16,929.45		47,710.27		TRAD
300460-010	UNIVERSITY OF TENNESSEE	LI, J.	9,518.74	-	-	-	9,518.74	5,235.31		14,754.05		TRAD
500263-010	INTELLIGENT AUTOMATION, INC.	LI, J.	19,445.45	2,925.94	-	-	22,371.39	-	051.30831764	UNIVERSITY OF TENNESSEE	051.30831764	(LI, J.)-15

**SCHEDULE 4**  
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(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST					PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
Electrical and Computer Engineering - Applied Research Center												
300311-010	ROCHESTER INSTITUTE OF TECHNOLOGY	BAILEY, C.	15,989.29	922.49	-	-	16,911.78	8,963.24		25,875.02		ARC
100221-010	* NATIONAL SCIENCE FOUNDATION	BAUMGART, H.	1,234.23	(29.92)	-	-	1,204.31	638.26		1,842.57		ARC
100473-010	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY	BAUMGART, H.	3,576.31	-	-	-	3,576.31	929.84		4,506.15		ARC
300409-010	* UNIVERSITY OF VIRGINIA	BAUMGART, H.	-	1,517.20	-	-	1,517.20	-		1,517.20		ARC
400110-023	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	BAUMGART, H.	5,780.88	-	-	969.12	6,750.00	-		6,750.00		ARC
500284-010	SUMMIT INFORMATION SOLUTIONS, INC	BAUMGART, H.	14,597.83	24.60	-	-	14,622.43	3,801.84		18,424.27		ARC
500295-010	MICROXACT, INC.	BAUMGART, H.	-	-	-	176.97	176.97	45.72		222.69		ARC
100221-010	* NATIONAL SCIENCE FOUNDATION	ELSAYED-ALI, H.	9,873.83	(239.34)	-	-	9,634.50	5,106.06		14,740.55		ARC
100567-020	LANGLEY RESEARCH CENTER	ELSAYED-ALI, H.	17,412.33	3,102.24	-	-	20,514.57	5,333.78		25,848.35		ARC
100674-010	NATIONAL SCIENCE FOUNDATION	ELSAYED-ALI, H.	44,065.57	8,364.74	2,521.88	-	54,952.19	28,836.67		83,788.86		ARC
300389-010	NORFOLK STATE UNIVERSITY	ELSAYED-ALI, H.	-	1,105.00	-	-	1,105.00	607.75		1,712.75		ARC
300430-010	UNIVERSITY OF VIRGINIA	ELSAYED-ALI, H.	5,938.75	2,214.08	-	-	8,152.83	-		8,152.83		ARC
400110-022	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	ELSAYED-ALI, H.	6,527.45	-	-	2,183.81	8,711.26	-		8,711.26		ARC
400125-010	EMBODY	ELSAYED-ALI, H.	481.25	3,100.00	-	0.08	3,581.33	1,969.73		5,551.06		ARC
400125-020	EMBODY	ELSAYED-ALI, H.	632.50	1,400.00	-	-	2,032.50	1,117.88		3,150.38		ARC
400288-010	EMBODY	ELSAYED-ALI, H.	-	(66.77)	-	-	(66.77)	(36.73)		(103.50)		ARC
400329-010	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	ELSAYED-ALI, H.	-	1,000.00	-	-	1,000.00	-		1,000.00		ARC
400342-010	COMMONWEALTH CENTER FOR ADVANCED MANUFACTURING	ELSAYED-ALI, H.	-	600.00	-	-	600.00	210.00		810.00		ARC
400346-011	JEFFERSON SCIENCE ASSOCIATES, LLC (JEFFERSON LAB)	ELSAYED-ALI, H.	18,812.02	4,253.36	-	-	23,065.38	-		23,065.38		ARC
400352-010	EMBODY	ELSAYED-ALI, H.	-	480.00	-	-	480.00	264.00		744.00		ARC
500254-010	VERTICAL CARBON TECHNOLOGIES, INC.	ELSAYED-ALI, H.	-	-	-	44.27	44.27	24.30		68.57		ARC
500258-010	NON-DISCLOSED SPONSORS	ELSAYED-ALI, H.	-	910.00	-	9.00	919.00	505.25		1,424.25		ARC
500285-010	BNNT, LLC	ELSAYED-ALI, H.	632.50	3,850.00	-	-	4,482.50	2,465.38		6,947.88		ARC
500288-010	FACE CONSTRUCTION TECHNOLOGIES	ELSAYED-ALI, H.	495.00	1,394.69	-	-	1,889.69	1,039.33		2,929.02		ARC
500345-010	MTEQ MANUFACTURING SERVICES	ELSAYED-ALI, H.	-	17,578.66	-	-	17,578.66	-		17,578.66		ARC
500361-010	BLACK LABORATORIES, LLC	ELSAYED-ALI, H.	-	470.00	-	-	470.00	258.50		728.50		ARC
100495-010	* NATIONAL SCIENCE FOUNDATION	ELSAYED-ALI, H.	-	66.41	-	-	66.41	35.20		101.61		ARC
200272-010	* CENTER FOR INNOVATIVE TECHNOLOGY	ELSAYED-ALI, H.	-	1,768.54	-	-	1,768.54	530.56		2,299.10		ARC
300409-010	* UNIVERSITY OF VIRGINIA	ELSAYED-ALI, H.	-	3,540.12	-	-	3,540.12	-		3,540.12		ARC
100256-010	* NATIONAL SCIENCE FOUNDATION	MARSILLAC, S.	569.08	411.67	-	11,625.00						ARC



SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
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FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	SUPPLIES, PROJECT DIRECT COST	PROJECT IDC AND FEES	TOTAL COSTS
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**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
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FOR FISCAL YEAR 2018

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

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
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(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT DIRECT COST

PROJECT IDC AND FEES

TOTAL COSTS

PROJECT  
NUMBER

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

FOR FISCAL YEAR 2018

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

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			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												
100566-020	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	ADAMS, T.	(16,376.09)	126.93	-	-	(16,249.16)	(1,299.93)		(17,549.09)		TRAD
100669-010	U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	APATOV, N.	-	-	-	19,816.00	19,816.00	-		19,816.00		TRAD
100533-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	FOWLER, C.	67,740.96	6,467.53	1,324.66	51,259.80	126,792.95	5,936.68		132,729.63		TRAD
100689-010	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	FOWLER, C.	9,442.47	694.12	-	14,652.35	24,788.94	810.93		25,599.87		TRAD
100533-020	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	FOWLER, C.	3,868.11	1,462.65	-	4,941.71	10,272.48	426.46		10,698.94		TRAD
100670-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	FOWLER, C.	14,043.15	517.50	-	8,400.00	22,960.65	1,164.85		24,125.51		TRAD
100478-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HANEY, T.	743.41	(98.45)	-	1,426.55	2,071.51	51.60		2,123.10		TRAD
100533-020	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HANEY, T.	3,868.11	1,462.65	-	4,941.71	10,272.48	426.46		10,698.94		TRAD
100533-030	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HANEY, T.	67,740.96	6,467.53	1,324.66	51,259.80	126,792.95	5,936.68		132,729.63		TRAD
100670-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	HANEY, T.	63,577.36	13,262.30	2,270.99	41,330.20	120,440.84	6,147.18		126,588.02		TRAD
100566-020	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HAWKINS, J.	(24,564.14)	190.40	-	-	(24,373.74)					TRAD
	93 98	-	7,412.57	7,941.71	15,408	22,960.65	63	426.46	6,046	698.94		TRAD

(,903763(330))TJ -113.45835,63 TD [(100670-2402558302)-160670,9683426.4 HEALTH SERVICE (INS, UDIN 24125) 61162.9 (HANEY, T.) 13249.2(63,577.36)]RUTLEDGE125 0 T041( 3 3)77(-)8826.3(6,467.53)]TJ 8.5208 0 TD [( 803 )91(-)10743(-)]TJ 8.5208 0 TD [( ( 1 764 )91(-)872

SCHEDULE 4

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

FOR FISCAL YEAR 2018

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





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OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
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(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL COSTS			
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
100684-010	* U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	HYNES, W.	12,760.73	28,229.86	-	19,726.16	60,716.75	22,544.83		83,261.58		TRAD
400330-010	* NATIONAL CAPITAL LYME DISEASE ASSOCIATION	HYNES, W.	-	500.00	-	-	500.00	-		500.00		TRAD
400334-010	* NATIONAL CAPITAL LYME DISEASE ASSOCIATION	HYNES, W.	599.10	6,056.16	-	-	6,655.26	-		6,655.26		TRAD
400360-010	NATIONAL CAPITAL LYME DISEASE ASSOCIATION	HYNES, W.	-	866.44	-	-	866.44	-		866.44		TRAD
400366-010	NATIONAL CAPITAL LYME DISEASE ASSOCIATION	HYNES, W.	-	695.00	-	-	695.00	-		695.00		TRAD
100496-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	KRAJ, P.	21,710.81	25,532.54	-	-	47,243.35	25,038.98		72,282.33		TRAD
300400-010	SAN DIEGO STATE UNIVERSITY RESEARCH FOUNDATION	MAXWELL, S.	9,225.08	-	-	-	9,225.08	5,073.79		14,298.87		TRAD



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

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, &	PROJECT DIRECT COST	PROJECT IDC AND FEES	TOTAL COSTS
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**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT**  
(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

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

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**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
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FOR FISCAL YEAR 2018

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







SCHEDULE 4

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
 SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

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			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
100650-010	NATIONAL SCIENCE FOUNDATION	KRAFFT, G.	-	-	-	2,290.12	2,290.12	-	-	2,290.12		TRAD
100704-010	NATIONAL SCIENCE FOUNDATION	KRAFFT, G.	-	-	-	5,907.66	5,907.66	-	-			TJ 9.5208 0 TPHE5H0033.1(-)-10743(-))

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			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												
100242-010	* NATIONAL SCIENCE FOUNDATION	ASH, I.	2,898.89	3,303.07	-	899.98	7,101.94	3,287.04		10,388.97		TRAD
100619-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	BARRACO, C.	5,390.29	1,722.36	-	-	7,112.66	3,911.96		11,024.62		TRAD
500329-010	VR REHAB, INC.	BLISS, J.	29,953.62	-	-	-	29,953.62	16,474.49		46,428.11		TRAD
500330-010	VR REHAB, INC.	BLISS, J.	10,045.54	-	-	277.46	10,323.00	5,677.00		16,000.00		TRAD
500330-020	VR REHAB, INC.	BLISS, J.	3,658.71	-	-	-	3,658.71	-		3,658.71		TRAD
500331-010	VR REHAB, INC.	BLISS, J.	9,023.39	-	-	1,299.61	10,323.00	5,677.00		16,000.00		TRAD
500331-020	VR REHAB, INC.	BLISS, J.	3,658.71	-	-	-	3,658.71	-		3,658.71		TRAD
100521-010	* AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)	BLISS, J.	46,992.27	14,588.57	2,763.00	5,014.80	69,358.64	6,034.22		75,392.86		TRAD
100626-010	U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	BRAITMAN, A.	109,466.79	23,130.29	-	-	132,597.08	10,607.77		143,204.85		TRAD
100619-010	* U.S. PUBLIC HEALTH SERVICE (INCLUDING NIH)	BRAITMAN, A.	5,390.29	1,722.36	-	-	7,112.66	3,911.96		11,024.62		TRAD
100690-010	NATIONAL SCIENCE FOUNDATION	CHEN, J.	31,806.48	2,278.38	-	-	34,084.86	18,746.68		52,831.54		TRAD

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				SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	REIMBURSED INDIRECT COSTS		TOTAL SPECIAL FEES	TOTAL PROJECT COSTS				

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			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
Virginia Modeling, Analysis and Simulation Center - VMASC												
200266-010	VA DEPARTMENT OF CRIMINAL JUSTICE SERVICES	BARNES, J.	-	9,844.59	-	-	9,844.59	3,150.27		12,994.86		VMASC
100531-001	* NAVAL SEA SYSTEMS COMMAND	BARRACO, A.	14,759.61	-	-	-	14,759.61	9,593.75		24,353.35		VMASC
600201-010	* UNIVERSITY OF AGDER	BARRACO, A.	16,296.03	-	-	-	16,296.03	8,962.82		25,258.85		VMASC
200244-010	* VA PORT AUTHORITY	BEHR, J.	9,366.26	58.28	-	514.63	9,939.17	5,466.31		15,405.49		VMASC
300366-010	* UNIVERSITY OF NORTH CAROLINA	BEHR, J.	6,155.53	(58.03)	-	-	6,097.50	3,353.63		9,451.13		VMASC
100531-001	* NAVAL SEA SYSTEMS COMMAND	COLLINS, A.	15,206.87	-	-	-	15,206.87	9,884.47		25,091.33		VMASC
200244-011	* VA PORT AUTHORITY	COLLINS, A.	5,527.78	-	-	-	5,527.78	3,040.29		8,568.07		VMASC
300258-010	* UNIVERSITY OF MARYLAND	COLLINS, A.	1,111.16	190.72	-	-	1,301.88	690.00		1,991.88		VMASC
500338-010	* G2 OPS, INC.	CROLL, M.	7,301.51	-	-	-	7,301.51	4,015.83		11,317.34		VMASC
500342-001	* WR SYSTEMS, LTD.	CROLL, M.	6,933.62	300.00	-	-	7,233.62	4,701.86		11,935.48		VMASC
500362-010	* G2 OPS, INC.	CROLL, M.	1,935.66	-	-	-	1,935.66	1,064.61		3,000.27		VMASC
100710-010	* NAVAL SPEC WARFARE DEVELOPMENT GROUP	CVIJETIC, B.	7,392.58	850.03	-	-						

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 (MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	PROJECT DIRECT COST				TOTAL DIRECT COSTS	PROJECT IDC AND FEES		TOTAL COSTS		EFFECTIVE INDIRECT COST RATE TRAVEL	CENTER L, & EQUIPME
				SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	REIMBURSED INDIRECT COSTS		TOTAL SPECIAL FEES	TOTAL PROJECT COSTS				

SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
 SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2018

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





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

FOR FISCAL YEAR 2018

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST					PROJECT IDC AND FEES		TOTAL COSTS		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
AFFILIATED ACTIVITY												
Virginia Space Grant Consortium												
100239-010	NATIONAL SCIENCE FOUNDATION	CARTER, C.	-	2,859.99	-	3,279.00	6,138.99	743.59		6,882.58		VSGC
100607-010	NATIONAL SCIENCE FOUNDATION	CARTER, C.	37,168.08	71,469.40	-	123,430.56	232,068.04	28,245.74		260,313.78		VSGC
200268-010	GAR-FIELD HIGH SCHOOL	CARTER, C.	1,170.17	1,959.00	-	897.50	4,026.67	-		4,026.67		VSGC
400139-100	NEW HORIZONS REGIONAL EDUCATION CENTERS	CARTER, C.	-	321.39	-	-	321.39	83.58		404.97		VSGC
500323-010	MIDLAND GIS SOLUTIONS	CARTER, C.	6,703.19	-	-	58,550.00	65,253.19	1,742.84		66,996.03		VSGC
100502-010	NASA GODDARD SPACEFLIGHT CENTER	SANDY, M.	-	-	-	3,337.20	3,337.20	-		3,337.20		VSGC
100522-010	LANGLEY RESEARCH CENTER	SANDY, M.	13,132.88	61,104.69	-	-	74,237.57	19,301.77		93,539.34		VSGC
100527-010	NASA GODDARD SPACEFLIGHT CENTER	SANDY, M.	308,255.44	17,906.55	-	306,101.47	632,263.46	84,802.14		717,065.60		VSGC
100573-010	NASA/HEADQUARTERS	SANDY, M.	14,137.52	1,089.23	-	33,191.18	48,417.93	3,958.95		52,376.88		VSGC
100595-010	* NASA GODDARD SPACEFLIGHT CENTER	SANDY, M.	7,663.45	16,886.21	-	34,394.06	58,943.73	6,382.94		65,326.66		VSGC
100631-011	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY	SANDY, M.	12,807.02	1,837.47	-	228.21	14,872.70	3,807.55		18,680.25		VSGC
200005-010	STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	SANDY, M.	205,144.57	105,032.51	-	150,733.59	460,910.67	-		460,910.67		VSGC
200005-011	STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	SANDY, M.	-	1,073.44	-	46,946.03	48,019.47	-		48,019.47		VSGC
200009-010	STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	SANDY, M.	-	-	-	170,573.15	170,573.15	-		170,573.15		VSGC
200009-020	STATE COUNCIL FOR HIGHER EDUCATION IN VA (SCHEV)	SANDY, M.	23,293.90	29,596.06	-	81,737.33	134,627.29	-		134,627.29		VSGC
300030-010	UNIVERSITY OF VIRGINIA	SANDY, M.	58,493.45	52,264.86	-	96,682( )-6284.7(58,550.00)]TJ	8.5208 0 TD		134,627.29			

SCHEDULE 5

Enterprise Centers Including Projects Reported as

Activity of an Academic Department

Fiscal Year 2018

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

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

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

PROJECT NUMBER		PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	PROJECT DIRECT COST				PROJECT IDC AND FEES		TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
				SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, TUITION & OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES			
300427-910	1	PULSE BIOSCIENCES (ELECTROBLATE)	BEEBE, S.	82,151	37,931	-	-	120,083	46,642	166,724		CBE
500314-010		PULSE CENTERS	BEEBE, S.	11,026	23,543	-	-	34,569	19,013	53,582		CBE
300427-010	*	OLD DOMINION UNIVERSITY	BEEBE, S.	42,994	20,640	-	-	63,634	19,090	82,724		63,634

SCHEDULE 5



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

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

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

PROJECT NUMBER	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL	PROJECT DIRECT COST	PROJECT IDC AND FEES	TOTAL COSTS
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## SCHEDULE 6

### Sponsored Program Activity

Proposals Submitted and Awards Funded

Fiscal Year 2018 through Fiscal Year 2014

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

	PROPOSALS SUBMITTED					AWARDS FUNDED				
	FY 18	FY 17	FY 16	FY 15	FY 14	FY 18	FY 17	FY 16	FY 15	FY 14
<b>COLLEGE OF ARTS &amp; LETTERS</b>										
Communication & Theatre Arts	\$ 98,956	\$ 418,145	\$ 43,829	\$ 252,579	\$ 620,942	\$ -	\$ -	\$ 30,340	\$ 22,500	\$ -
English	4,000	-	712,206	125,456	43,063	146,385	128,777	1,000	46,956	28,939
Foreign Languages & Literatures	-	-	-	89,078	213,307	-	-	-	-	6,494
History	75,000	54,630	6,300	100,000	53,782	75,000	60,930	-	-	44,487
Music	-	-	-	4,600	-	-	-	-	-	-
Philosophy & Religious Studies	18,680	19,980	67,565	77,305	135,017	-	-	18,612	-	-
Political Science & Geography	629,132	3,330,522	186,390	836,072	581,193	100,415	64,773	81,285	17,500	56,737
Social Science Research Center	281,686	591,003	461,893	3,345,297	266,380	193,540	167,967	206,114	60,000	204,366
Sociology & Criminal Justice	1,588,925	610,177	3,878,504	3,127,178	4,977,302	599,664	951,946	442,507	2,000	-
Women's Studies	-	-	-	-	-	18,886	-	-	-	-
Dean's Office	4,950	96,363	58,025	-	1,650	-	-	-	-	27,827
<b>College Total</b>	<b>\$ 2,701,328</b>	<b>\$ 5,120,820</b>	<b>\$ 5,414,712</b>	<b>\$ 7,957,564</b>	<b>\$ 6,892,636</b>	<b>\$ 1,133,890</b>	<b>\$ 1,374,393</b>	<b>\$ 779,858</b>	<b>\$ 148,956</b>	<b>\$ 368,850</b>
% Change from prior year	-47.25%	-5.43%	-31.96%	15.45%	28.28%	-17.50%	76.24%	423.55%	-59.62%	-17.32%
Average yearly increase ( decrease)	-9.95%					30.83%				
<b>STROME COLLEGE OF BUSINESS</b>										
Business Administration	\$ -	\$ -	\$ 2,500	\$ -	\$ -	\$ -	\$ -	\$ 2,500	\$ -	\$ -
Economics	131,296	2,684,711	473,697	10,834	149,497	100,000	113,137	83,615	85,997	50,000
Finance, Insurance and Real Estate	-	-	-	614,859	13,501	-	-	-	-	-



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

	PROPOSALS SUBMITTED					AWARDS FUNDED				
	FY 18	FY 17	FY 16	FY 15	FY 14	FY 18	FY 17	FY 16	FY 15	FY 14
<b>OFFICE OF RESEARCH AND OTHER UNITS</b>										
Office of Research	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Virginia Modeling, Analysis & Simulation Center	25,179,745	24,853,771	21,340,031	30,809,977	18,066,607	2,530,191	1,107,570	1,524,927	1,506,024	2,127,012