

Oakland University

Research Report

Fiscal Year 2018

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Preface

The Research Office is proud to present the Fiscal Year (FY) 2018 Annual Report on external funding at Oakland University (OU). This report is designed to give readers a comprehensive overview of the nature and extent of external funding provided to faculty and staff to support their research, instructional, public service, and creative activities. Detailed data are also provided for proposals that were submitted in FY 2018.

During FY 2018, OU attracted just under \$10 million in external funding. As experts and leaders in their fields, OU faculty and staff continue to secure external funding for a broad range of robust research programs, many of which promote strong collaborations with other universities and research institutes, private industry, and regional organizations. These collaborations are vital in a funding climate emphasizing cross-disciplinary collaboration and public-private partnerships for addressing complex societal needs.

Moreover, these sponsored programs support OU's mission to be a student-centered public research university by providing experiential learning opportunities that help position our students to become the next generation of scientists, engineers, educators, and performers, while also advancing society through the creation and mobilization of knowledge.

The Research Office deeply appreciates the efforts of the OU faculty and staff who submitted grant and contract proposals during FY 2018, and we extend our warmest congratulations to those who obtained external funding this year.

Technical Notes and Definitions

Annual Report Reporting Period

The **fiscal year (FY)** for OU is July 1 to June 30. This report includes data for all awards and proposals processed through the Research Office for FY 2018. An award is considered processed by the Research Office when it has been reviewed, institutionally endorsed (if necessary), and transferred to Accounting for account set up. A proposal is considered processed through the Research Office after the institutional review and sign off process is complete.

Definition of Award

An **award** is a funded project for which OU has received an official notice of award or executed contract from a sponsor requiring the university to undertake a particular activity and for which a deliverable is expected. Awards that provide full funding in the first year of a multi-year project are included in the fiscal year the award was made. Award dollars received from sponsors that provide funding for specific budget periods within a multi-year project (i.e. incremental awards) are included in the fiscal year for which funding is received. Consequently, funding can fluctuate for a department or college depending on how a project is funded. Direct year-by-year comparisons should always be made with caution.

Definition of Proposal

A **proposal** is a request for financial support for a particular sponsored activity and that is routed through the Research Office. It is important to recognize that there is no correlation between the proposals and awards discussed in this report, as many of the proposals submitted for the previous year are still pending with the sponsors.

Intellectual Credit

Proposals and awards are credited to the lead principal investigator (PI) and his/her home unit or center, whether academic or otherwise. For proposals or awards that also include co-PIs, the total amount proposed or awarded is credited to the lead PI and his/her home unit. However, the participation of each co-PI named on the project is indicated with a notation under the co-PI's home academic unit or center.

Sponsor Types

The Research Office recognizes five categories of **sponsors**: federal, state, corporate, and public/nonprofit. Federal sponsors for proposals and awards include direct federal funding as well as flow-through funding when federal dollars come to OU through a non-federal entity (e.g. state agency or other university). Public/nonprofit sponsors include non-Michigan institutions of higher education, municipalities, civic organizations, as well as nonprofit and non-governmental organizations.

Report Layout

This report has seven (7) sections. The first section, award overview, provides a summary of all sponsored awards received by OU through the Research Office for the previous fiscal year. The ensuing three sections include award information separated according to the following activity types: 1) research, 2) instruction, and 3) other sponsored activities. The fifth section of the report details proposal submissions for the previous fiscal year. The final sections of the report include listings of the winners of the 2017 Research, Innovation, and Engagement Town Hall and the PI Academy for Research and Engagement Class of 2018.

Research

Research includes both fundamental and applied research activities wherein a systematic study to gain knowledge and understanding of a particular phenomenon or observable facts may have specific applications or products in mind. Research also includes funding to maintain research facilities, disseminate project findings, and train individuals in research techniques or methods.

Instruction

Instruction incorporates the teaching and training activities of the institution (with the exception of research training which is identified as research) that are intended to elicit some measure of educational change in a learner or in a group of learners. Instruction includes all teaching and training activities, whether offered for credit(s) towards a degree or certificate, on a non-credit basis, or through regular academic departments or separate divisions, such as a summer school division or an extension division.

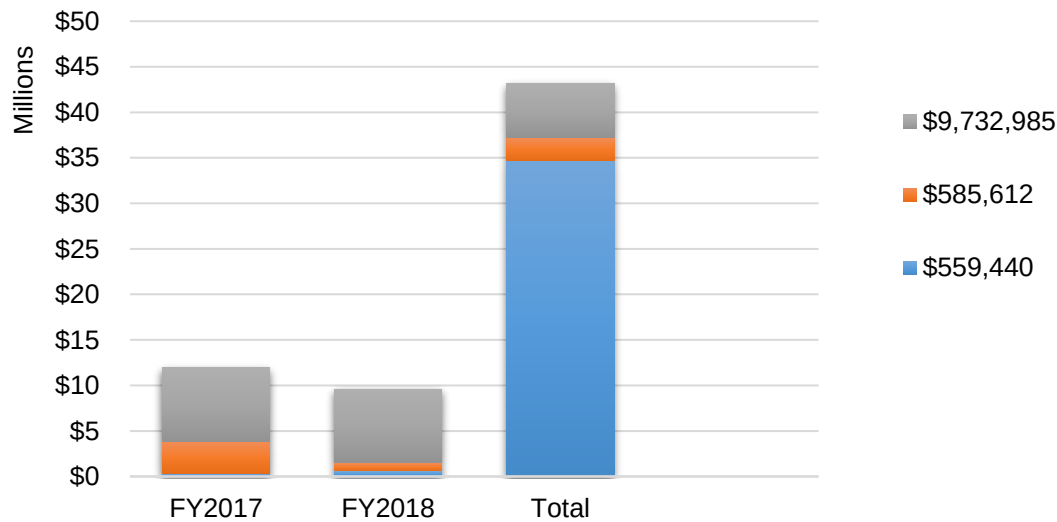
Other Sponsored Activities

These programs include public service programs that bring the various resources and capabilities of OU to meet local needs. Other sponsored activities may also include student support programs, testing and evaluation activities that do not meet the definition of research, joint appointment agreements, and some workshop and travel grants.

“Other” Academic Unit

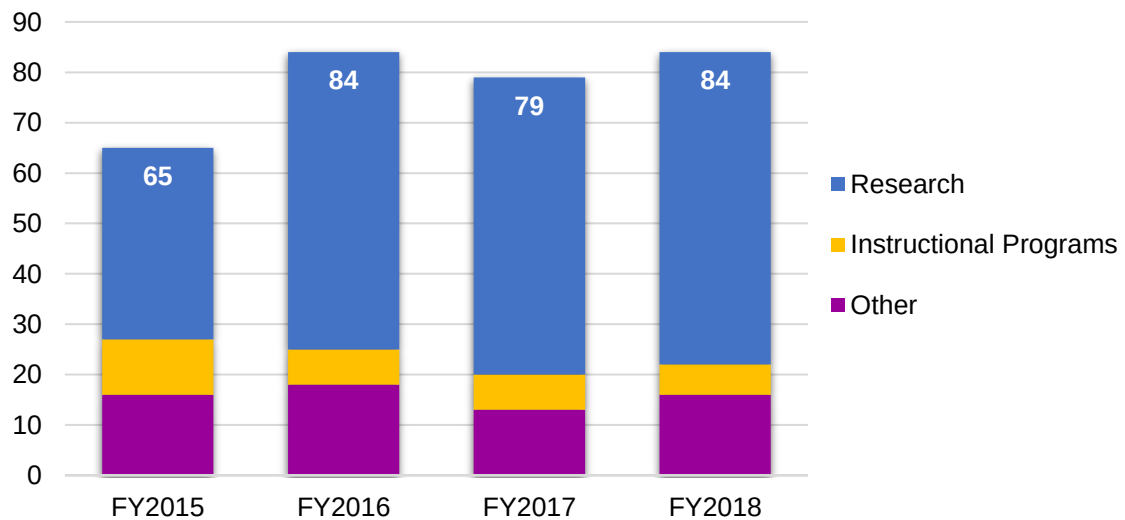
The term “Other” is used for sponsored activities that fall outside the formal academic unit structure. This includes, but is not limited to, campus areas such as Academic Affairs Office, Athletics Administration, Campus Police, Campus Recreation, Center for Multicultural Initiatives, Facilities Management, Financial Aid, Macomb-OU Incubator, OU INC, Pre-College Programs, the Research Office, Student Affairs, and Upward Bound.

Amounts and Number of Awards by Purpose



Funding Amount of New Awards

Purpose of Funding	FY2015	FY2016	FY2017	FY2018	Total
Research	8,785,245	9,732,985	8,126,866	8,074,392	34,719,488
Instruction	907,104	585,612	3,438,237	910,416	5,841,369
Other Sponsored Activities	999,890	559,440	379,769	613,804	2,552,903
Total	\$10,692,239	\$10,878,037	\$11,944,872	\$9,598,612	\$43,113,760

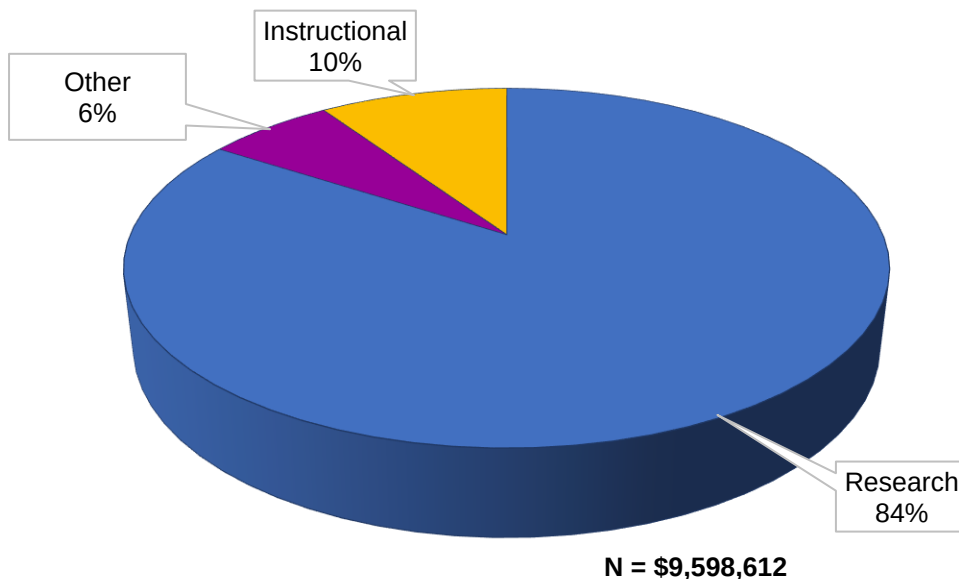


Number of Awards

Purpose of Funding	FY2015	FY2016	FY2017	FY2018	Total
Research	38	59	59	62	218
Instruction	11	7	7	6	31
Other Sponsored Activities	16	18	13	16	63
Total	65	84	79	84	312

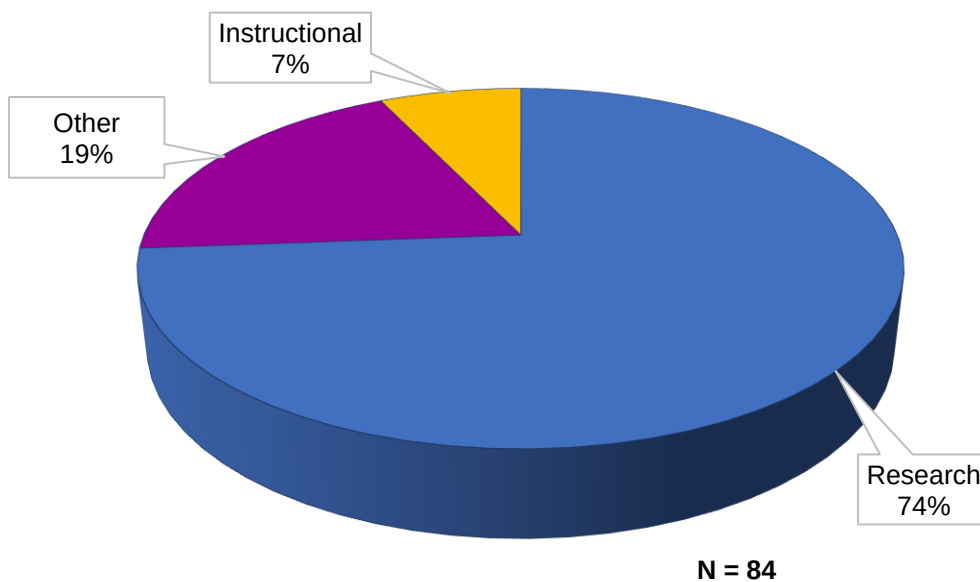
Amounts and Number of Awards by Purpose

FY2018 • Funding Amount Percentages



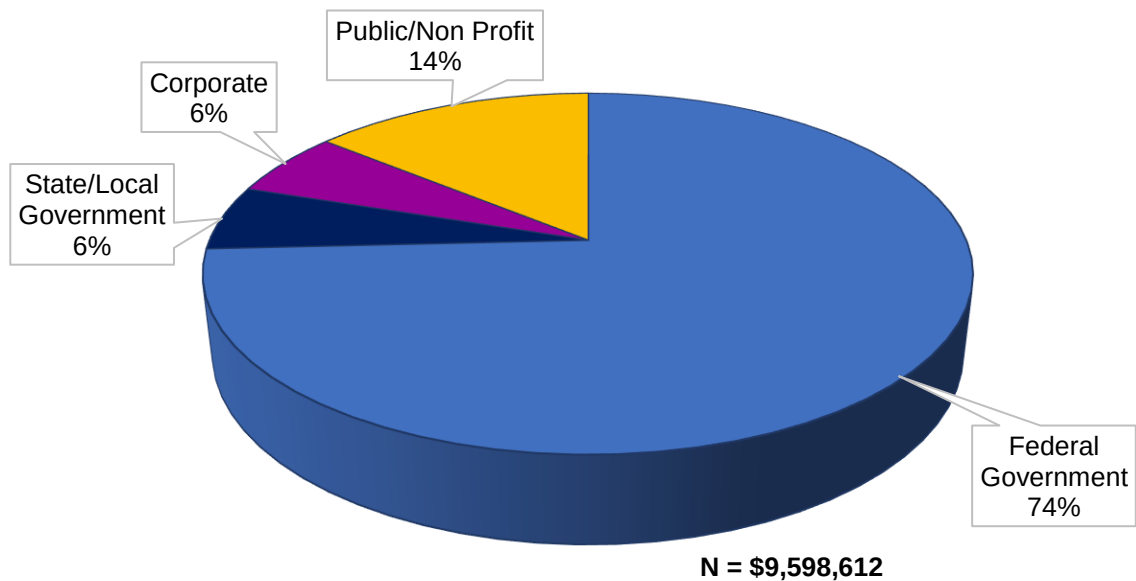
Purpose of Funding	Number of Awards	Total
Research	62	8,074,392
Instruction	6	910,416
Other Sponsored Activities	16	613,804
Total	84	\$9,598,612

FY2018 • Number of Awards Percentage by Purpose



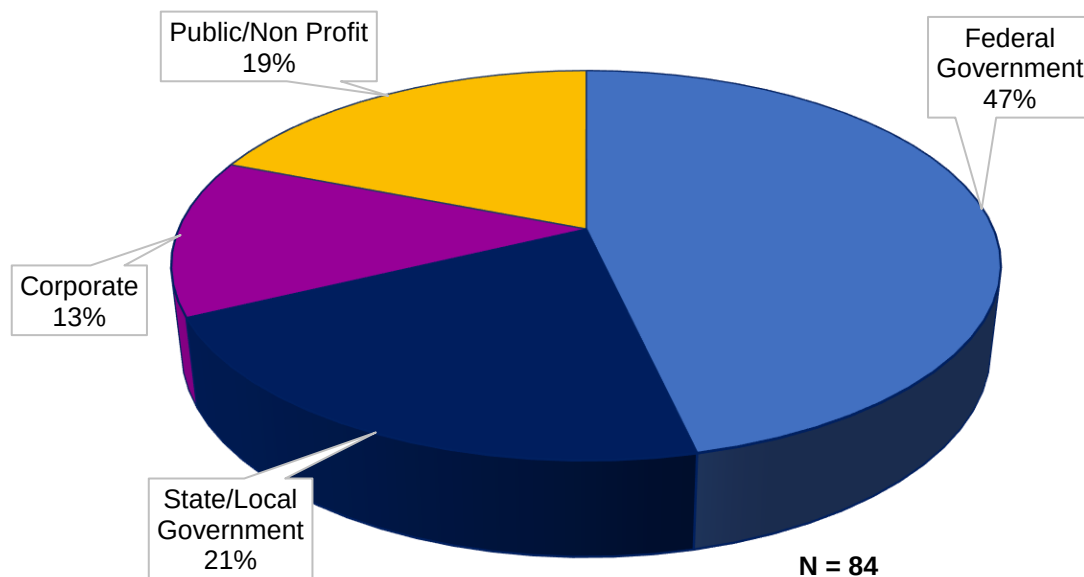
Percentages and Number of Awards by Source

FY2018 • Funding Amount Percentages by Source



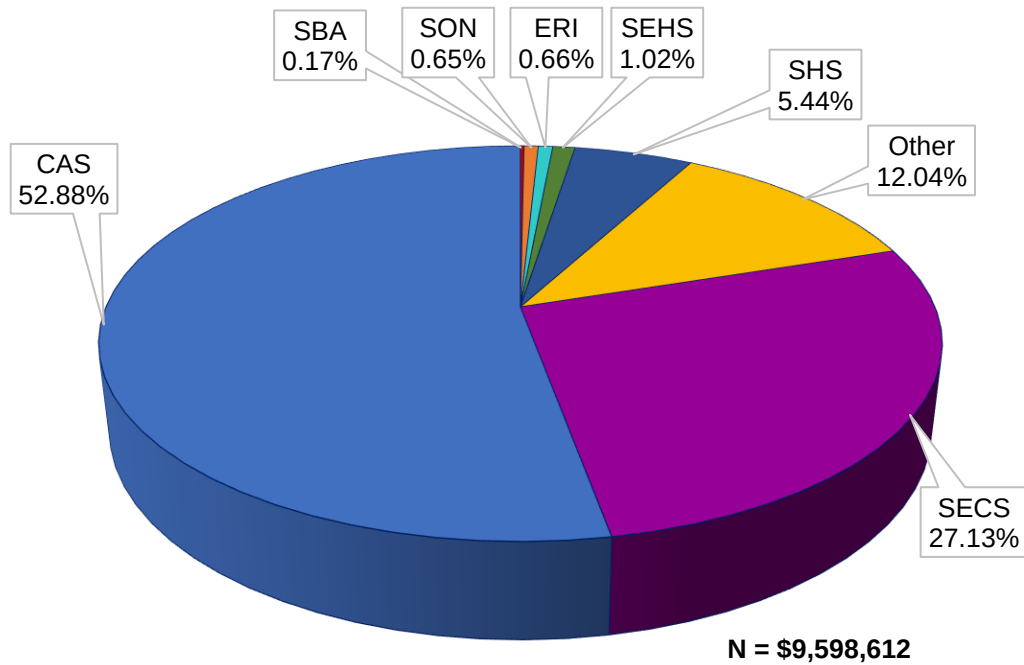
Source of Funding	Number of Awards	Total
Federal Government	39	7,124,456
State/Local Government	18	557,626
Corporate Sponsors	11	563,614
Public/Nonprofit Sponsors	16	1,352,916
Total	84	\$9,598,612

FY2018 • Number of Awards by Source



Percentages and Award Amounts by Academic Unit

FY2018 • Funding Amount Percentages by Academic Unit



Academic Unit	FY2015	FY2016	FY2017	FY2018	Total
College of Arts & Sciences	2,392,872	4,739,354	4,491,729	5,075,991	16,699,946
Eye Research Institute	1,839,321	2,220,027	0	63,677	4,123,025
School of Business Administration	39,439	0	0	16,350	55,789
School of Engineering & Computer Science	2,903,907	2,536,276	2,813,107	2,604,175	10,857,465
School of Education and Human Services	502,000	398,000	625,994	97,590	1,623,584
School of Health Sciences	1,952,244	28,061	197,346	522,524	2,700,175
School of Medicine	3,350	11,568	63,984	0	78,902
School of Nursing	54,415	266,545	20,450	62,304	403,714
Other	1,004,691	678,206	3,732,262	1,156,001	6,571,160
Total	\$10,692,239	\$10,878,037	\$11,944,872	\$9,598,612	\$43,113,760

FY 2018 Department Rankings

	Department/Unit	Dollars	Parent Unit
1	Biological Sciences	2,067,691	College of Arts & Sciences
2	Mechanical Engineering	1,701,927	College of Engineering & Computer Science
3	Physics	1,395,296	College of Arts & Sciences
4	Chemistry	1,163,000	College of Arts & Sciences
5	Health Sciences	521,524	School of Health Sciences

FY 2018 Non-Academic and Other Unit Rankings

	Department/Unit	Dollars
1	Center for Multicultural Initiatives	645,390
2	The Research Office	249,625
3	Macomb-OU Incubator	145,946
4	Pre-College Programs	62,680
5	OU Incubator	45,950

Comparison of FY 2017 and FY 2018

Amounts Awarded by Academic Unit and Other Administrative Units

<i>College of Arts & Sciences</i>	FY2017 Awards	FY2018 Awards
<i>Art and Art History</i>	18,000	0
<i>Biological Sciences</i>	2,578,789	2,067,691
<i>Chemistry</i>	313,845	1,163,000
<i>Physics</i>	675,829	1,395,296
<i>Psychology</i>	830,266	251,788
<i>Sociology, Anthropology, Social Work and Criminal Justice</i>	50,000	198,216
<i>Writing and Rhetoric</i>	25,000	0
CAS Total	\$4,491,729	\$5,075,991

<i>Eye Research Institute</i>	FY2017 Awards	FY2018 Awards
ERI Total	\$0	\$63,677

<i>School of Business Administration</i>	FY2017 Awards	FY2018 Awards
SBA Total	\$0	\$16,350

Comparison of FY2017 and FY2018, continued

<i>School of Engineering & Computer Science</i>	FY2017 Awards	FY2018 Awards
<i>Computer Science and Engineering</i>	1,183,780	452,486
<i>Electrical and Computer Engineering</i>	999,299	426,018
<i>Industrial and Systems Engineering</i>	55,000	23,744
<i>Mechanical Engineering</i>	575,028	1,701,927
<i>SECS Total</i>	\$2,813,107	\$2,604,175

<i>School of Education & Human Services</i>	FY2017 Awards	FY2018 Awards
<i>Human Development and Child Studies</i>	625,994	97,590
<i>SEHS Total</i>	\$625,994	\$97,590

<i>School of Health Sciences</i>	FY2017 Awards	FY2018 Awards
<i>Interdisciplinary Health Sciences</i>	174,046	521,524
<i>Human Movement Science</i>	23,300	1,000
<i>SHS Total</i>	\$197,346	\$522,524

<i>School of Medicine</i>	FY2017 Awards	FY2018 Awards
<i>SOM Total</i>	\$63,984	\$0

<i>School of Nursing</i>	FY2017 Awards	FY2018 Awards
<i>SON Total</i>	\$20,450	\$62,304

Comparison of FY2017 and FY2018, continued

<i>Other</i>	FY2017 Awards	FY2018 Awards
<i>Campus Recreation</i>	20,000	0
<i>Center for Multicultural Initiatives</i>	91,364	645,390
<i>Library</i>	0	6,410
<i>Macomb-OU Incubator</i>	55,000	145,946
<i>Office of the Senior Associate Provost</i>	100,000	0
<i>OU INC</i>	119,025	45,950
<i>Pre-College Programs</i>	196,023	62,680
<i>Student Affairs</i>	50,000	0
<i>The Research Office</i>	25,000	249,625
<i>Upward Bound</i>	3,075,850	0
<i>Other Total</i>	\$3,732,262	\$1,156,001

<i>Oakland University Total</i>	FY2017 Awards	FY2018 Awards
<i>Grand Total</i>	\$11,944,872	\$9,598,612

FY 2018 Amount Awarded by Unit and Purpose

<i>College of Arts & Sciences</i>	Research	Instruction	Other Sponsored Activities
<i>Biological Sciences</i>	2,067,691	0	0
<i>Chemistry</i>	1,163,000	0	0
<i>Physics</i>	1,395,296	0	0
<i>Psychology</i>	251,788	0	0
<i>Sociology and Anthropology</i>	64,843	0	133,373
<i>CAS Total</i>	\$4,942,618	\$0	\$133,373

<i>Eye Research Institute</i>	Research	Instruction	Other Sponsored Activities
<i>ERI Total</i>	\$63,677	\$0	\$0

<i>School of Business Administration</i>	Research	Instruction	Other Sponsored Activities
<i>SBA Total</i>	\$16,350	\$0	\$0

FY 2018 Amount Awarded by Unit and Purpose, continued

<i>School of Engineering & Computer Science</i>	Research	Instruction	Other Sponsored Activities
<i>Computer Science and Engineering</i>	342,222	110,264	0
<i>Electrical and Computer Engineering</i>	426,018	0	0
<i>Industrial and Systems Engineering</i>	23,744	0	0
<i>Mechanical Engineering</i>	1,701,927	0	0
<i>SECS Total</i>	\$2,493,911	\$110,264	\$0

<i>School of Education & Human Services</i>	Research	Instruction	Other Sponsored Activities
<i>Human Development and Child Studies</i>	0	0	97,590
<i>SEHS Total</i>	\$0	\$0	\$97,590

<i>School of Health Sciences</i>	Research	Instruction	Other Sponsored Activities
<i>Interdisciplinary Health Sciences</i>	521,524	0	0
<i>Human Movement Science</i>	1,000	0	0
<i>SHS Total</i>	\$522,524	\$0	\$0

<i>School of Nursing</i>	Research	Instruction	Other Sponsored Activities
<i>SON Total</i>	\$35,312	\$26,992	\$0

<i>Other</i>	Research	Instruction	Other Sponsored Activities
<i>Center for Multicultural Initiatives</i>	0	645,390	0
<i>Macomb-OU Incubator</i>	0	0	145,946
<i>Library</i>	0	0	6,410
<i>OU INC</i>	0	0	45,950
<i>Pre-College Programs</i>	0	62,680	0
<i>The Research Office</i>	0	0	249,625
<i>Other Total</i>	\$0	\$708,070	\$447,931

<i>Oakland University Total</i>	Research	Instruction	Other Sponsored Activities
<i>Grand Total</i>	\$8,074,392	\$845,326	\$678,894

FY 2018 Amount Awarded by Unit and Source

<i>College of Arts & Sciences</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Biological Sciences</i>	2,050,191	0	0	17,500
<i>Chemistry</i>	988,000	0	0	175,000
<i>Physics</i>	1,335,320	0	0	59,976
<i>Psychology</i>	235,288	0	0	16,500
<i>Sociology and Anthropology</i>	56,844	0	0	141,372
<i>CAS Total</i>	\$4,665,643	\$0	\$0	\$410,348

<i>Eye Research Institute</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>ERI Total</i>	\$63,677	\$0	\$0	\$0

<i>School of Business Administration</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Management and Marketing</i>	0	0	16,350	0
<i>SBA Total</i>	\$0	\$0	\$16,350	\$0

<i>School of Engineering & Computer Science</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Computer Science and Engineering</i>	200,000	0	104,000	38,222
<i>Electrical and Computer Engineering</i>	426,018	0	0	0
<i>Industrial and Systems Engineering</i>	0	0	0	23,744
<i>Mechanical Engineering</i>	1,280,192	88,735	443,264	0
<i>SECS Total</i>	\$1,906,210	\$88,735	\$547,264	\$61,966

<i>School of Education & Human Services</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Human Development and Child Studies</i>	0	97,590	0	0
<i>SEHS Total</i>	\$0	\$97,590	\$0	\$0

<i>School of Health Sciences</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Interdisciplinary Health Sciences</i>	455,524	16,000	0	50,000
<i>Human Movement Science</i>	0	1,000	0	0
<i>SHS Total</i>	\$455,524	\$17,000	\$0	\$50,000

FY 2018 Amount Awarded by Unit and Source, continued

<i>School of Nursing</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>SON Total</i>	\$26,992	\$0	\$0	\$35,312

<i>Other</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Center for Multicultural Initiatives</i>	0	645,390	0	0
<i>Macomb-OU Incubator</i>	0	45,950	0	0
<i>Library</i>	6,410	0	0	0
<i>OU INC</i>	0	145,946	0	0
<i>Pre-College Programs</i>	0	62,680	0	0
<i>The Research Office</i>	0	249,625	0	0
<i>Other Total</i>	\$6,410	\$1,149,591	\$0	\$0

<i>Oakland University Total</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Grand Total</i>	\$7,124,456	\$1,352,916	\$563,614	\$557,626

Amount Awarded by Federal Agency *

Fiscal Years 2015 – 2018

<i>Agency/Sponsor</i>	FY2015	FY2016	FY2017	FY2018
<i>Army Educational Outreach Program</i>	0	0	0	4,000
<i>Centers for Disease Control and Prevention</i>	1,952,244	0	0	455,524
<i>Health Resources and Services Administration</i>	34,415	58,346	0	26,992
<i>HighScope Research Foundation</i>	0	0	560,994	0
<i>Ironic Chemicals, LLC-NSF</i>	0	0	0	84,647
<i>Los Alamos National Lab</i>	0	0	69,957	2,700
<i>Michigan Department of Labor/Economic Growth</i>	0	0	196,023	0
<i>Michigan Department of Natural Resources</i>	0	0	191,888	0
<i>USAID</i>	0	0	0	56,844
<i>National Aeronautics and Space Administration</i>	37,490	628,713	52,500	41,500
<i>National Cancer Institute</i>	0	208,199	0	0
<i>National Center for Manufacturing Sciences</i>	0	507,772	105,107	853,372
<i>National Endowment for the Humanities</i>	0	0	0	6,410
<i>National Institutes of Health</i>	2,172,908	4,959,780	1,277,018	2,916,677
<i>National Science Foundation</i>	2,060,048	1,826,724	3,410,486	826,578
<i>National Security Agency</i>	0	119,847	100,000	200,000
<i>National Writing Project</i>	0	0	15,000	0
<i>NIDILRR-Rehabilitation Research & Training Centers</i>	0	0	55,428	0
<i>Pacific Northwest National Laboratory</i>	82,998	0	82,999	78,085
<i>Raytheon BBN Technologies Corporation</i>	0	0	0	749,803
<i>RHK Technologies, Inc.</i>	0	0	0	68,131
<i>State of Michigan</i>	140,975	0	0	0
<i>SUNY Downstate Medical Center</i>	0	135,000	0	0
<i>Trout Unlimited-EPA</i>	0	0	0	90,544
<i>Tuskegee University</i>	0	0	0	14,994
<i>United States Army-TACOM</i>	50,000	0	30,000	0
<i>United States Army</i>	4,000	8,000	4,000	0
<i>United States Department of Education</i>	0	0	3,075,850	0
<i>United States Council for Automotive Research</i>	0	0	80,086	0
<i>University of California</i>	0	0	430,000	0
<i>University of Houston</i>	0	38,733	0	0
<i>University of Iowa</i>	0	0	9,984	0
<i>University of Michigan</i>	243,631	0	17,000	320,535
<i>University of New Mexico</i>	68,068	0	0	0
<i>Vanderbilt University and Medical Center</i>	0	0	0	87,120

Amount Awarded by Federal Agency, continued *

<i>Agency/Sponsor</i>	FY2015	FY2016	FY2017	FY2018
<i>Veterans Affairs</i>	0	0	6,813	0
<i>Virginia Polytechnic Institute and State University</i>	0	240,000	0	240,000
<i>Wayne State University</i>	0	70,000	0	0
<i>Winchester Technologies</i>	150,797	0	0	0
<i>U.S. Department of Agriculture</i>	0	59,277	0	0
<i>Oakland University Grand Total</i>	\$6,997,574	\$8,860,391	\$9,771,133	\$7,124,456

* Includes flow through funding

Amount Awarded by State/Local Agency *

<i>Agency/Sponsor</i>	FY2015	FY2016	FY2017	FY2018
<i>Grand Valley State University</i>	519,200	290,390	85,000	0
<i>Macomb County</i>	0	9,000	0	0
<i>Macomb Intermediate School District</i>	0	0	0	65,090
<i>Michigan Council for Arts and Cultural Affairs</i>	0	0	18,000	0
<i>Michigan Department of Community Health</i>	500,000	0	0	0
<i>Michigan Department of Environmental Quality</i>	0	0	158,314	0
<i>Michigan Department of Health and Human Services</i>	0	0	88,300	32,500
<i>Michigan Department of Labor and Economic Growth</i>	0	0	0	62,680
<i>Michigan Economic Development Corporation</i>	221,352	25,000	25,000	442,521
<i>Michigan State Police</i>	0	10,550	0	0
<i>Michigan State University</i>	0	5,800	0	0
<i>Michigan Technological University</i>	0	0	0	10,000
<i>Oakland County Health Division</i>	0	3,761	5,487	6,000
<i>Oakland County Homeland Security</i>	0	7,902	0	0
<i>Oakland Schools</i>	83,000	0	56,800	0
<i>State of Michigan</i>	91,364	91,364	91,364	734,125
<i>Department of Education</i>	0	380,000	0	0
<i>Oakland University Grand Total</i>	\$1,414,916	\$ 823,767	\$528,265	\$1,352,916

* Includes flow through funding

Amount Awarded by Corporations

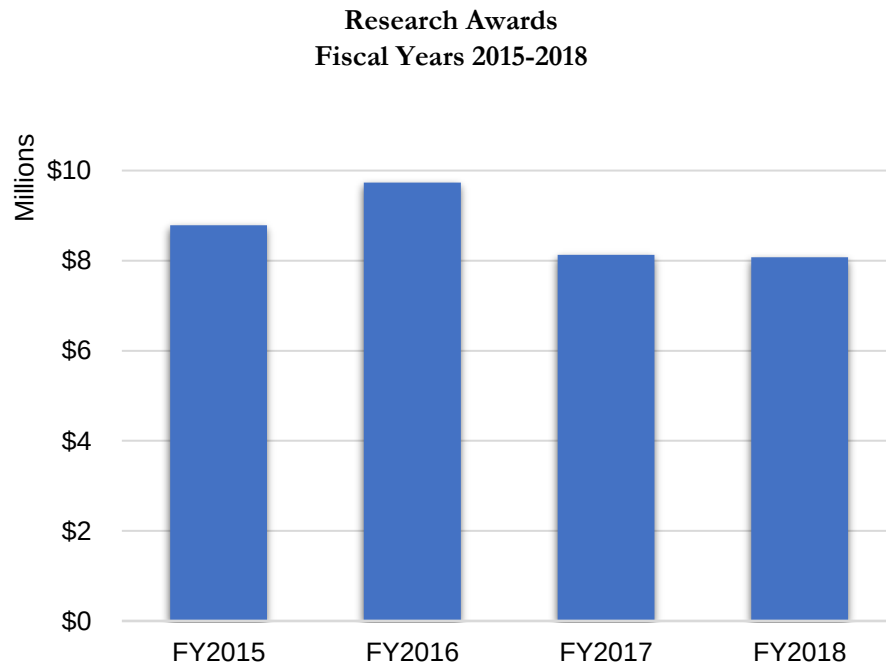
<i>Agency/Sponsor</i>	FY2015	FY2016	FY2017	FY2018
<i>ANLARA</i>	0	10,000	0	0
<i>Auto/ Steel Partnership</i>	0	53,072	0	0
<i>Axalta Coating Systems, LLC</i>	29,900	0	0	0
<i>BetaCae Systems</i>	160,000	0	63,900	0
<i>Brar Technology</i>	0	5,027	0	0
<i>Comcast Innovation Fund</i>	0	0	0	50,000
<i>Consumers Energy</i>	0	0	0	54,000
<i>DTE</i>	0	35,000	0	0
<i>Eaton Corporation</i>	0	0	0	46,000
<i>ESI Group</i>	27,000	0	0	0
<i>Fiat Chrysler Automobiles</i>	597,612	270,424	312,861	317,264
<i>Ford Motor Company</i>	0	149,999	0	0
<i>Hitachi</i>	0	0	0	16,350
<i>Hyundai Mobis Company</i>	0	0	0	60,000
<i>I*Logic Inc</i>	0	5,000	0	0
<i>Intrepid Control Systems</i>	280,000	0	0	0
<i>Lear Corporation</i>	36,000	0	0	0
<i>Magna Electronics</i>	0	143,819	0	0
<i>PPG Industries, Inc.</i>	0	0	74,550	0
<i>Retinal Solutions, LLC</i>	0	81,150	0	0
<i>RHK Technology</i>	500,000	0	0	0
<i>X-wave Innovations</i>	0	0	0	20,000
<i>Oakland University Grand Total</i>	\$1,630,512	\$753,491	\$451,311	\$563,614

Amount Awarded by Public/Nonprofit Sponsors

Agency/Sponsor	FY2015	FY2016	FY2017	FY2018
<i>Academy of Applied Science</i>	0	4,000	0	0
<i>Alliance of Coalitions for Healthy Communities</i>	0	0	0	16,500
<i>Alpha Foundation</i>	0	0	0	175,000
<i>American Association of Anatomists</i>	0	0	50,000	0
<i>American Cancer Society</i>	0	0	20,000	0
<i>American Chemical Society</i>	0	55,000	0	0
<i>American Heart Association</i>	235,000	4,000	305,031	0
<i>American Psychological Association</i>	0	0	1,000	0
<i>American Sociological Association</i>	0	0	0	7,999
<i>Arnold P. Gold Foundation</i>	0	4,000	2,000	0
<i>Beaumont Research Institute</i>	0	0	10,143	0
<i>Blue Cross Blue Shield of Michigan</i>	0	0	64,000	0
<i>Blue Cross Blue Shield of Michigan Foundation</i>	0	0	0	85,312
<i>Brooksie Way</i>	1,800	0	0	0
<i>Chicago Assoc for Research and Education in Science</i>	0	0	8,518	0
<i>Community Foundation for Southeastern Michigan</i>	0	204,000	149,025	0
<i>Comprehensive Early Autism Services</i>	0	0	32,760	0
<i>DMC Foundation</i>	0	41,220	0	0
<i>Educas AS</i>	0	0	0	23,744
<i>Eversight</i>	0	0	0	15,000
<i>Foundation for Food and Agriculture Research</i>	0	0	421,236	0
<i>Golf Ball Divers Alliance</i>	0	0	0	2,500
<i>HAVEN of Oakland County</i>	0	11,600	0	0
<i>Helping Hand for Relief and Development</i>	0	0	0	38,222
<i>Henry Ford Health System</i>	0	0	0	59,976
<i>Hope Warming Center</i>	0	-5,014	0	0
<i>Johnson Controls Foundation</i>	27,110	0	0	0
<i>Jonas Center for Nursing Excellence</i>	20,000	0	10,000	0
<i>Lapeer County Community Foundation</i>	0	5,000	0	0
<i>Michigan Campus Compact</i>	3,350	0	0	0
<i>Michigan Council for Arts and Cultural Affairs</i>	13,750	12,000	0	0
<i>Michigan State Medical Society Foundation</i>	0	1,304	0	0
<i>National Council of Teachers of English</i>	0	0	10,000	0
<i>National League of Nursing</i>	0	0	10,450	0
<i>Quinnipiac University</i>	0	1,250	0	0
<i>Reading Recovery Council of North America</i>	0	18,000	0	0
<i>Sociologists for Women in Society</i>	243,788	0	0	133,373
<i>St. Joseph Mercy Oakland</i>	39,439	0	0	0
<i>Stevens Institute of Technology</i>	0	8,000	0	0
<i>The Kresge Foundation</i>	65,000	40,000	100,000	0
<i>U.S. Soccer Federation Foundation</i>	0	8,500	0	0
Grand Total	\$549,624	\$649,237	\$422,888	\$557,626

Research

Amounts and Number of Research Awards



Purpose of Funding: Research	FY2015	FY2016	FY2017	FY2018
College of Arts & Sciences	2,050,334	4,727,354	4,425,969	4,942,618
Eye Research Institute	1,839,321	2,220,027	0	63,677
School of Business Administration	39,439	0	0	16,350
School of Engineering and Computer Science	2,903,907	2,528,276	2,813,107	2,493,911
School of Education and Human Services	0	18,000	625,994	0
School of Health Sciences	1,952,244	19,561	197,346	522,524
School of Medicine	0	11,568	54,000	0
School of Nursing	0	208,199	10,450	35,312
Total	\$8,785,245	\$9,732,985	\$8,126,866	\$8,074,392

FY 2018 Research Awards by Source

Source	Amount	Amount Percentage	Number of Awards	Number Percentage
Federal	7,091,054	87%	36	58%
State/Local	105,735	2%	4	7%
Corporate	453,350	6%	10	16%
Public/Nonprofit	424,253	5%	12	19%
Total	\$8,074,392	100%	62	100%

Research Awards by Department

Fiscal Years 2015 – 2018

<i>College of Arts & Sciences</i>	FY2015	FY2016	FY2017	FY2018
<i>Biological Sciences</i>	1,044,990	729,490	2,578,789	2,067,691
<i>Chemistry</i>	338,587	1,130,098	313,845	1,163,000
<i>Mathematics and Statistics</i>	429,960	19,847	0	0
<i>Modern Languages and Literatures</i>	0	17,500	0	0
<i>Physics</i>	205,797	2,818,819	675,829	1,395,296
<i>Psychology</i>	0	11,600	797,506	251,788
<i>Sociology and Anthropology</i>	31,000	0	50,000	64,843
<i>Writing and Rhetoric</i>	0	0	10,000	0
<i>CAS Total</i>	\$2,050,334	\$4,727,354	\$4,425,969	\$4,942,618

<i>Eye Research Institute</i>	FY2015	FY2016	FY2017	FY2018
<i>ERI Total</i>	\$1,839,321	\$2,220,027	\$0	\$63,677

<i>School of Business Administration</i>	FY2015	FY2016	FY2017	FY2018
<i>Decision and Information Sciences</i>	39,439	0	0	0
<i>Management and Marketing</i>	0	0	0	16,350
<i>SBA Total</i>	\$39,439	\$0	\$0	\$16,350

<i>School of Engineering and Computer Science</i>	FY2015	FY2016	FY2017	FY2018
<i>Computer Science and Engineering</i>	359,988	746,526	1,183,780	342,222
<i>Electrical and Computer Engineering</i>	1,710,980	117,477	999,299	426,018
<i>Industrial and Systems Engineering</i>	40,000	35,000	55,000	23,744
<i>Mechanical Engineering</i>	792,939	1,629,273	575,028	1,701,927
<i>SECS Total</i>	\$2,903,907	\$2,528,276	\$2,813,107	\$2,493,911

<i>School of Education and Human Services</i>	FY2015	FY2016	FY2017	FY2018
<i>Educational Leadership</i>	0	0	0	0
<i>Human Development and Child Studies</i>	0	0	625,994	0
<i>Reading and Language Arts</i>	0	18,000	0	0
<i>SEHS Total</i>	\$0	\$18,000	\$625,994	\$0

Research Awards by Department, continued

Fiscal Years 2015 – 2018

<i>School of Health Sciences</i>	FY2015	FY2016	FY2017	FY2018
<i>Interdisciplinary Health Sciences</i>	1,952,244	19,561	174,046	521,524
<i>Human Movement Science</i>	0	0	23,300	1,000
<i>SHS Total</i>	\$1,952,244	\$19,561	\$197,346	\$522,524

<i>School of Medicine</i>	FY2015	FY2016	FY2017	FY2018
<i>SOM Total</i>	\$0	\$11,568	\$54,000	\$0

<i>School of Nursing</i>	FY2015	FY2016	FY2017	FY2018
<i>SON Total</i>	\$0	\$208,199	\$10,450	\$35,312

<i>Oakland University Total</i>	FY2015	FY2016	FY2017	FY2018
<i>Grand Total Research</i>	\$8,785,245	\$9,732,985	\$8,126,866	\$8,074,392
<i>Grand Total Funding</i>	\$10,692,239	\$10,878,037	\$11,944,872	\$9,598,612

FY 2018 Research Awards by Unit, Department, and Principal Investigator

College of Arts & Sciences

Biological Sciences

Blumer-Schuette, Sara, Engineering Alternative Oxidation Activity in A. ferrooxidans for Enhanced Biohydrometallurgy Capabilities, Ironic Chemicals LLC, \$59,647

Blumer-Schuette, Sara, Engineering Alternative Oxidation Activity in A. ferrooxidans for Enhanced Biohydrometallurgy Capabilities, Ironic Chemicals LLC, \$25,000

Gordon, Sheldon, Investigations into the Nature of the Corneal Endothelial Cell Surface SBA-Binding Protein, Eversight, \$15,000

Raffel, Thomas, OU/Golf Ball Divers Alliance Research Program, Golf Ball Divers Alliance, \$2,500

Tiegs, Scott, The Great Lakes New Zealand Mud Snail Collaborative, EPA/Trout Unlimited, \$90,544

Westrick, Randal, Thrombosuppressive Mechanisms of Novel Mouse Mutants Discovered Through an ENU Mutagenesis, NIH, \$1,875,000

Chemistry

Sevilla, Michael, Mechanisms of Radiation Damage to DNA: LET Effects, National Institutes of Health, \$78,000

Sevilla, Michael, Mechanisms of Radiation Damage to DNA: LET Effects, National Institutes of Health, \$900,000

Chemistry, continued

Trivedi, Evan and Jake Farnsworth, Rare-Earth Complexes as Upconverting and Downconverting Antennae in Solar Cells, Undergraduate Fellowship, NASA/Michigan Space Grant Consortium/University of Michigan, \$2,500

Wu, Colin and Kaitlin Lowran, Evaluations of Microgravity on DNA Repair, Undergraduate Fellowship, NASA/Michigan Space Grant Consortium/University of Michigan, \$2,500

Wu, Colin, Evaluations of Microgravity on DNA Repair, NASA/Michigan Space Grant Consortium/University of Michigan, \$5,000

Zeng, Xiangqun, Wearable and Real Time Electrochemical Gas Sensors for Mine Safety and Health, Alpha Foundation, \$175,000

Physics

Elder, Ken, Ordering of Two-Dimensional Strained Films, National Science Foundation, \$100,000

Garfinkle, David, Studies of Singularities, Black Holes, and Gravitational Radiation, National Science Foundation, \$153,397

Roth, Bradley, Optimal Design of Challenge-Response Experiments in Cardiac Electrophysiology, NIH/Vanderbilt University and Medical Center, \$87,120

Roth, Bradley, Graduate Student Support for Medical Physics Research at Henry Ford Hospital, Henry Ford Health System, \$15,027

Roth, Bradley, Graduate Student Support for Medical Physics Research at Henry Ford Hospital, Henry Ford Health System, \$6,999

Roth, Bradley, Graduate Student Support for Medical Physics Research at Henry Ford Hospital, Henry Ford Health System, \$37,950

Srinivasan, Gopalan, A MATRIX Solution to Solid State Devices for Scalable, Integratable, and Efficient Signal and Power DARPA, DOD/Virginia Polytechnic Institute and State University, \$240,000

Tyberkevych, Vasyl, Magnetic Miniaturized and Monolithically Integrated Components (M3IC), DOD/Raytheon BBN Technologies Corporation, \$749,803

Zhang, Wei, Explore Organic-Inorganic Hybrid Perovskites for Spin-Based Thermoelectric Devices, NASA/Michigan Space Grant Consortium/University of Michigan, \$5,000

Psychology

Escobar, Martha, Preparing Interdisciplinary Minority Material Scientist and Engineers of the Future, National Science Foundation, \$220,294

Escobar, Martha, NSF INCLUDES DDLP: The Alabama Alliance for an Inclusive Middle Grades Computer Science Preparation through Makerspaces in the Alabama Black Belt Region, National Science Foundation/Tuskegee University, \$14,994

Purdie, Michele, Social Norms Intervention Assessment, Alliance of Coalitions for Healthy Communities, \$16,500

Sociology and Anthropology

Benz, Terressa, Campus Carry, Fear, and Academic Freedom: A Longitudinal Analysis, American Sociological Association, \$7,999

Sociology and Anthropology, continued

Carroll, Jon, Precision Agriculture for Smallholder Systems in Africa, United States Agency for International Development/Michigan State University, \$56,844

Eye Research Institute

Goldberg, Andrew, Investigation of the Molecular Basis of Rod and Cone Photoreceptor Structure, National Institutes of Health, \$63,677

School of Business Administration

Management and Marketing

Thrasher, Gregory, Competency Model Development and Validation, Hitachi, \$16,350

School of Engineering and Computer Science

Computer Science and Engineering

Fredericks, Erik, Developing Context-Aware Strategies to Minimize Impact on an Internet of Things Network, Comcast Innovation Fund, \$50,000

Fu, Huirong, GenCyber: Cybersecurity Camp for K-12 Teachers, National Security Agency, \$100,000

Fu, Huirong, GenCyber Student Program – Entry Level, National Security Agency, \$100,000

Malik, Khalid Mahmood, Development of Secure Network Architecture with Built-In Mechanism for Future Forensic Analysis, Helping Hand for Relief and Development, \$38,222

Qu, Guangzhi, Survival Analysis Predictive Model, Consumers Energy, \$54,000

Electrical and Computer Engineering

Dean, Brian, Applied Research Experience in Electrical and Computer Engineering, National Science Foundation, \$352,887

Hanna, Darren, Smart and Fast Atomic Force Microscope for Imaging and Characterizations, NSF/RHK Technologies, Inc., \$68,131

Llamocca, Daniel, Run-Time Reconfigurable Architecture for a Spacewire Router, NASA/Michigan Space Grant Consortium/University of Michigan, \$5,000

Industrial and Systems Engineering

Oakley, Barbara, Improving Online and Face-to-Face Learning Techniques in Norway, Educas AS, \$23,744

Mechanical Engineering

Barber, Gary, Low Friction Material Treatment, Fiat Chrysler Automobiles LLC, \$40,000

Barber, Gary, Mechanical Properties of 52100 Steel, Fiat Chrysler Automobiles, LLC, \$40,000

Barber, Gary, Tribological Performance of Busway Coatings, Eaton Corporation, \$46,000

Golovashchenko, Sergey, Enhancing Sheared Edge Stretchability of AHSS/UHSS through Integrated Manufacturing Process, DOE/Pacific Northwest National Laboratory, \$71,000

Golovashchenko, Sergey, Enhancing Sheared Edge Stretchability of AHSS/UHSS through Integrated Manufacturing Process, DOE/Pacific Northwest National Laboratory, \$7,085

Mechanical Engineering, continued

Guessous, Laila, Oakland University MSGC Pathway to External Grants, NASA/Michigan Space Grant Consortium/University of Michigan, \$1,500

Kobus, Krzystof, Earth System Science STEM Campus, Outreach and Teacher Training, NASA/Michigan Space Grant Consortium/University of Michigan, \$20,000

Kobus, Krzystof, OU Alternative Energy STEM Apprenticeship, DOD/Army Educational Outreach Program, \$4,000

Kobus, Krzystof, MICUP-HTech Jobs of the Future Program, State of Michigan, \$88,735

Mourelatos, Zissimos, A CAE Method to Predict and Optimize Active Noise Cancellation Performance Using Vehicle Vibroacoustic Analysis, Fiat Chrysler Automotive US LLC, \$118,000

Mourelatos, Zissimos, Reliability, Maintenance and Optimal Operation of Repairable Systems with Application to a Smart Charging Microgrid with Vehicle-to-Grid Capability, TACOM/University of Michigan, \$161,484

Mourelatos, Zissimos, Reliability, Maintenance and Optimal Operation of Repairable Systems with Application to a Smart Charging Microgrid with Vehicle-to-Grid Capability, DOD/University of Michigan, \$79,501

Mourelatos, Zissimos, Efficient Reduced-Order Modeling and Re-Analysis Methodologies for NVH Analysis and Optimization, Hyundai Mobis Company, \$60,000

Nassar, Sayed, Adhesive Joining of Lightweight Materials, DOD/National Center for Manufacturing Sciences, \$549,999

Nassar, Sayed, Enhanced Environmental Performance for Safety Glass – Phase III, DOD/National Center for Manufacturing Sciences, \$303,373

Pandey, Vijitashwa, A Decision-Based Mobility Model for Semi and Fully Autonomous Vehicles, DOD/University of Michigan, \$79,550

Sangeorzan, Brian, Powertrain PREP Programs, Fiat Chrysler Automobiles LLC, \$9,000

Yang, Lianxiang, 3-D Digital Image Correlation-Based NDE System for Qualification of Additive Manufacturing Parts, X-wave Innovations, Inc., \$20,000

Zhao, Peng, Development and Validation of KIVA-hpFE for Spray and Engine Processes, DOE/Los Alamos National Laboratory, \$2,700

School of Health Sciences

Interdisciplinary Health Sciences

Lucarelli, Jennifer, Healthy Pontiac, We Can! Eliminating Health Disparities in a Low-Income Urban Minority Community, Centers for Disease Control and Prevention, \$455,524

Olawoyin, Richard, State of Michigan Independent Risk Analysis for the Straits Pipeline, Michigan Technological University, \$10,000

Stevenson, Laurel, Pontiac Prescription for Health, Blue Cross Blue Shield Foundation, \$50,000

Stevenson, Laurel, Health and Wellness 4x4 Plan Evaluation, Oakland County Health Division, \$6,000

Human Movement Science

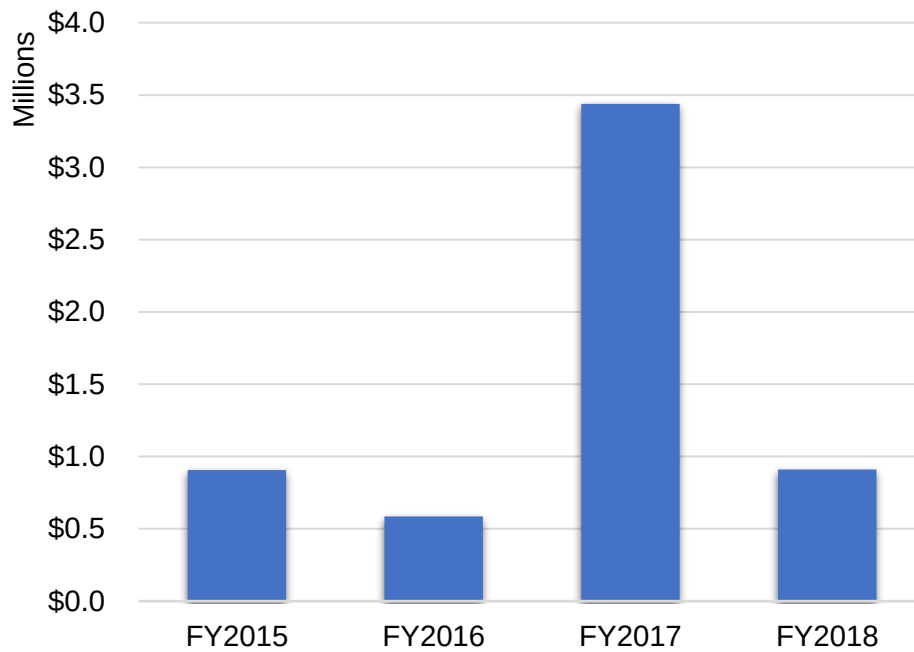
Thompson, Kristine, Content, Methods and Outcomes of an Interprofessional Education Faculty Facilitator Development, Grand Valley State University, \$1,000

School of Nursing

Yao, Lan, Fall Prevention Exercise Program in Older Arab Americans, Blue Cross Blue Shield Michigan Foundation, \$35,312

Instruction Awards

**Instruction Awards
Fiscal Years 2015-2018**



Academic Unit Comparison

Academic Unit	FY2015	FY2016	FY2017	FY2018
College of Arts & Sciences	85,000	0	15,000	0
Other	262,339	139,266	3,413,237	708,070
School of Education and Human Services	0	8,000	0	65,090
School of Engineering and Computer Science	0	0	0	110,264
School of Medicine	502,000	380,000	10,000	0
School of Nursing	3,350	0	0	26,992
Total	\$907,104	\$585,612	\$3,438,237	\$910,416

FY 2018 Instruction Awards by Source

Source	Amount	Amount Percentage	Number of Awards	Number Percentage
Federal	26,992	3%	2	33%
State/Local	773,160	85%	3	50%
Corporate	110,264	12%	1	17%
Total	\$910,416	100%	6	100%

Instruction Awards by Department

Fiscal Years 2015 – 2018

<i>College of Arts & Sciences</i>	FY2015	FY2016	FY2017	FY2018
<i>Art and Art History</i>	10,000	0	0	0
<i>Sociology and Anthropology</i>	50,000	0	0	0
<i>Writing and Rhetoric</i>	25,000	0	15,000	0
<i>CAS Total</i>	\$85,000	\$0	\$15,000	\$0

<i>School of Engineering and Computer Science</i>	FY2015	FY2016	FY2017	FY2018
<i>Computer Science and Engineering</i>	0	8,000	0	0
<i>Mechanical Engineering</i>	0	0	0	110,264
<i>SECS Total</i>	\$0	\$8,000	\$0	\$110,264

<i>School of Education and Human Services</i>	FY2015	FY2016	FY2017	FY2018
<i>Human Development and Child Studies</i>	502,000	380,000	0	65,090
<i>SEHS Total</i>	\$502,000	\$380,000	\$0	\$65,090

<i>School of Medicine</i>	FY2015	FY2016	FY2017	FY2018
<i>SOM Total</i>	\$3,350	\$0	\$0	\$0

<i>School of Nursing</i>	FY2015	FY2016	FY2017	FY2018
<i>SON Total</i>	\$54,415	\$58,346	\$10,000	\$26,992

<i>Other</i>	FY2015	FY2016	FY2017	FY2018
<i>Center for Multicultural Initiatives</i>	91,364	91,364	91,364	645,390
<i>Office of the Senior Associate Provost</i>	30,000	40,000	0	0
<i>Police</i>	0	7,902	0	0
<i>Pre-College Programs</i>	140,975	0	196,023	62,680
<i>Student Affairs</i>	0	0	50,000	0
<i>Upward Bound</i>	0	0	3,075,850	0
<i>CAS Total</i>	\$262,339	\$139,266	\$3,413,237	\$708,070

<i>Oakland University Total</i>	FY2015	FY2016	FY2017	FY2018
<i>Grand Total Instruction</i>	\$907,104	\$585,612	\$3,438,237	\$910,416
<i>Grand Total Funding</i>	\$10,692,239	\$10,878,037	\$11,944,872	\$9,598,612

FY 2018 Instruction Awards by Unit, Department and Principal Investigator

School of Education and Human Services

Human Development and Child Studies

Korneder, Jessica, Pilot Project: School-Based Analytic Services, Macomb Intermediate School District, Macomb Intermediate School District, \$65,090

School of Engineering and Computer Science

Department of Mechanical Engineering

Golovaschenko, Sergey, CLIC Form, FIAT Chrysler Automobiles LLC, \$110,264

School of Nursing

Hranchook, Anne, Nurse Anesthesia Traineeship (NAT), Health Resources and Services Administration, \$24,192

Hranchook, Anne, Nurse Anesthesia Traineeship (NAT), Health Resources and Services Administration, \$2,800

Other

Center for Multicultural Initiatives

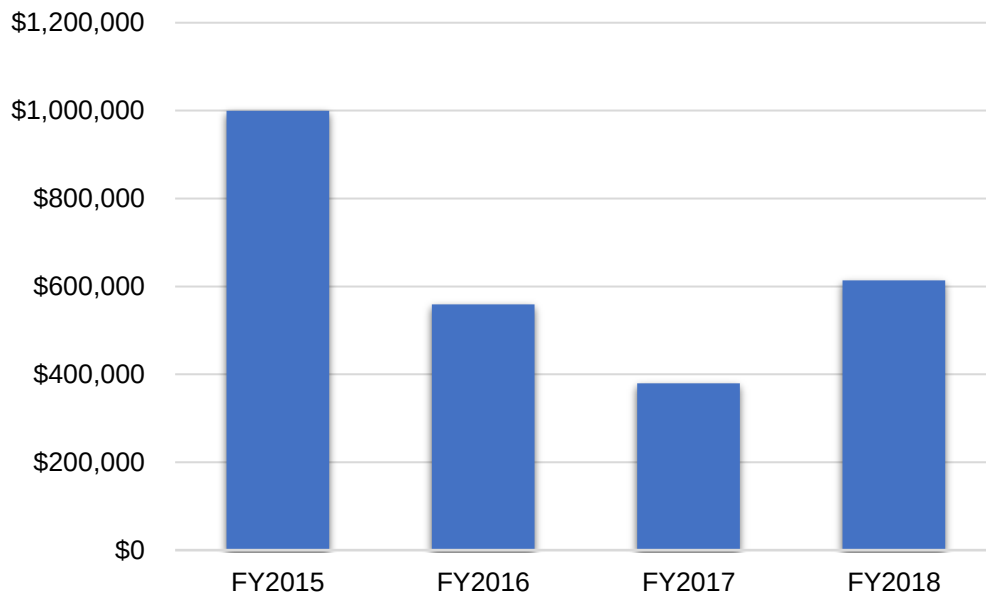
Brown-El, Omar, Collectively Oakland Retains Everyone (C.O.R.E.) Program 4-S King Chavez Parks, State of Michigan, \$645,390

Pre-College Programs

McCloud, Reginald, Gaining Early Awareness and Readiness for Undergraduate Programs (GEARUP), Michigan Department of Labor & Economic Growth, \$62,680

Other Sponsored Activities Awards

**Other Sponsored Activities Awards
Fiscal Years 2015-2018**



Academic Unit Comparison

Academic Unit	FY2015	FY2016	FY2017	FY2018
College of Arts & Sciences	257,538	12,000	50,760	133,373
School of Education and Human Services	0	0	0	32,500
School of Health Sciences	0	8,500	0	0
School of Medicine	0	0	9,984	0
Other	742,352	538,940	319,025	447,931
Total	\$999,890	\$559,440	\$379,769	\$613,804

FY 2018 Other Sponsored Activities Awards by Source

Source	Amount	Amount Percentage	Number of Awards	Number Percentage
Federal	6,410	1%	1	6%
State/Local	474,021	77%	11	69%
Public/Nonprofit	133,373	22%	4	25%
Total	\$613,804	100%	16	100%

Other Sponsored Activities by Department

Fiscal Years 2015 – 2018

<i>College of Arts & Sciences</i>	FY2015	FY2016	FY2017	FY2018
<i>Art and Art History</i>	13,750	12,000	18,000	0
<i>Psychology</i>	0	0	32,760	0
<i>Sociology and Anthropology</i>	243,788	0	0	133,373
<i>CAS Total</i>	\$257,538	\$12,000	\$50,760	\$133,373

<i>School of Education and Human Services</i>	FY2015	FY2016	FY2017	FY2018
<i>Human Development and Child Studies</i>	0	0	0	32,500
<i>SEHS Total</i>	\$0	\$0	\$0	\$32,500

<i>Other</i>	FY2015	FY2016	FY2017	FY2018
<i>Athletics Administration</i>	1,800	0	0	0
<i>Campus Recreation</i>	0	0	20,000	0
<i>Center for Student Activities</i>	0	10,550	0	0
<i>Library</i>	0	0	0	6,410
<i>Office of the Senior Associate Provost</i>	0	0	100,000	0
<i>Macomb-OU Incubator</i>	391,519	281,590	55,000	145,946
<i>OU INC</i>	323,560	221,800	119,025	45,950
<i>The Research Office</i>	25,473	25,000	25,000	249,625
<i>Other Total</i>	\$742,352	\$538,940	\$319,025	\$447,931

<i>Oakland University Total</i>	FY2015	FY2016	FY2017	FY2018
<i>Grand Total Other Sponsored Activities</i>	\$999,890	\$550,940	\$369,785	\$613,804
<i>Grand Total Funding</i>	\$10,692,239	\$10,878,037	\$11,944,872	\$9,598,612

Other Sponsored Activities Awards by Unit, Department and Principal Investigator

College of Arts & Sciences

Sociology and Anthropology

Reger, Joanne, Editorship of *Gender and Society*, Sociologists for Women in Society, \$33,225

Reger, Joanne, Editorship of *Gender and Society*, Sociologists for Women in Society, \$33,225

Reger, Joanne, Editorship of *Gender and Society*, Sociologists for Women in Society, \$33,461

Reger, Joanne, Editorship of *Gender and Society*, Sociologists for Women in Society, \$33,462

Other

Library

Daniel, Dominique, Oakland University Archives and Special Collections Preservation Assessment, National Endowment for the Humanities, \$6,410

Macomb-OU Incubator

Herriman, Lawrence, Business Accelerator Fund-Client Engagement, Commander Innovations, Grand Valley State University/MEDC, \$16,500

Herriman, Lawrence, Business Accelerator Fund-Client Engagement, Human Balance and Stability, Grand Valley State University/MEDC, \$10,320

Herriman, Lawrence, Business Accelerator Fund-Client Engagement, Templar, Grand Valley State University/MEDC, \$5,500

Herriman, Lawrence, Business Accelerator Fund-Client Engagement, Security Vitals, Grand Valley State University/MEDC, \$14,963

Herriman, Lawrence, MSF 2015 Business Incubators, Michigan Economic Development Corporation, \$98,663

OU INC

Kent, Stephen, Business Accelerator Fund-Client Engagement, Berryline Phase II, Grand Valley State University/MEDC, \$16,500

Kent, Stephen, Business Accelerator Fund-Client Engagement, BackBeat Technologies, Grand Valley State University/MEDC, \$9,450

Kent, Stephen, Business Accelerator Fund-Client Engagement, Skypersonic II, Grand Valley State University/MEDC, \$20,000

The Research Office

Stone, David, Business Incubator Programs: Incubator Gatekeeper, Michigan Economic Development Corporation, \$199,625

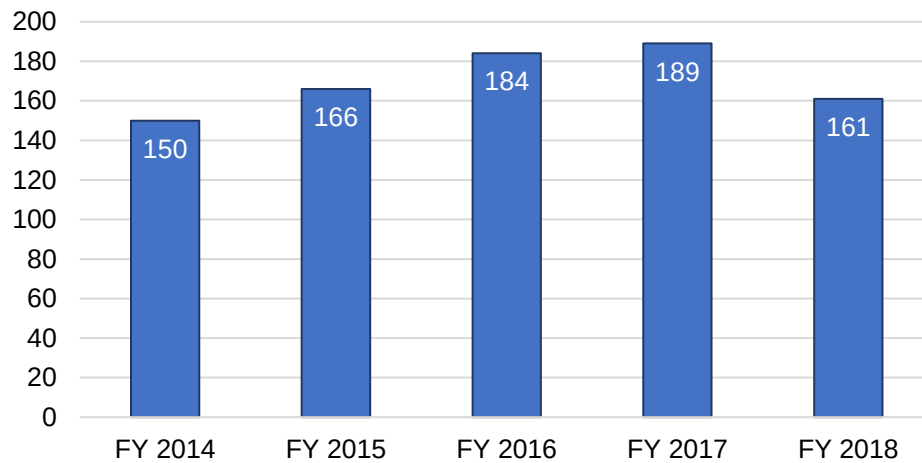
Stone, David, T3N 3.0, University of Michigan/MEDC, \$50,000

School of Education and Human Services

Human Development and Child Studies

Korneder, Jessica, University Autism Spectrum Disorders Program, Michigan Department of Health and Human Services, \$32,500

Number of Proposals Submitted, FY 2015-2018

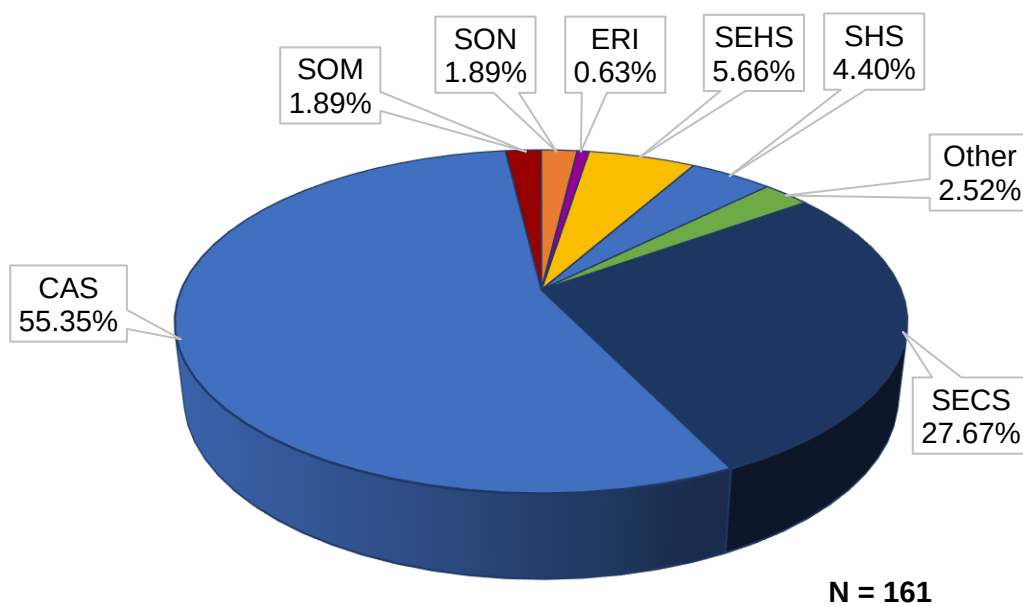


Number of Proposals Submitted by Academic Unit, FY 2015-2018

Academic Unit	FY2015	FY2016	FY2017	FY2018	Grand Total
CAS	77	86	98	88	349
ERI	4	5	0	1	10
SBA	1	3	2	0	6
SECS	52	50	45	45	192
SEHS	3	6	5	9	23
SHS	7	11	14	8	40
SOM	6	4	6	3	19
SON	7	4	5	3	18
Other	9	15	14	4	42
Grand Total	166	184	189	161	700

FY 2018 Proposals Submitted by Academic Unit

FY2018 • Number of Proposals Submitted by Academic Unit



FY 2018 Proposals Submitted by Academic Unit, continued

<i>College of Arts & Sciences</i>	FY2017	FY2018
<i>Art & Art History</i>	1	1
<i>Biological Sciences</i>	25	32
<i>Chemistry</i>	37	28
<i>Mathematics and Statistics</i>	1	3
<i>Music, Theatre and Dance</i>	1	0
<i>Physics</i>	20	19
<i>Political Science (Pre-Law)</i>	0	1
<i>Psychology</i>	10	2
<i>Sociology and Anthropology</i>	1	2
<i>Writing and Rhetoric</i>	2	0
<i>CAS Total</i>	98	88

<i>Eye Research Institute</i>	FY2017	FY2018
<i>Eye Research Institute</i>	0	1
<i>ERI Total</i>	0	1

<i>School of Business Administration</i>	FY2017	FY2018
<i>Decision and Information Science</i>	1	0
<i>Management & Marketing</i>	1	0
<i>SBA Total</i>	2	0

<i>School of Engineering and Computer Science</i>	FY2017	FY2018
<i>Computer Science & Engineering</i>	12	11
<i>Electrical & Computer Engineering</i>	7	9
<i>Industrial & Systems Engineering</i>	5	5
<i>Mechanical Engineering</i>	21	19
<i>SECS Total</i>	45	44

<i>School of Education and Human Services</i>	FY2017	FY2018
<i>Human Development and Child Studies</i>	3	4
<i>Reading and Language Arts</i>	1	2
<i>Galileo Institute for Teacher Leadership</i>	0	2
<i>Organizational Leadership</i>	1	1
<i>SBA Total</i>	5	9

<i>School of Health Science</i>	FY2017	FY2018
<i>Interdisciplinary Health Science</i>	12	7
<i>Human Movement Science</i>	2	0
<i>SHS Total</i>	14	7

FY 2018 Proposals Submitted by Academic Unit, continued

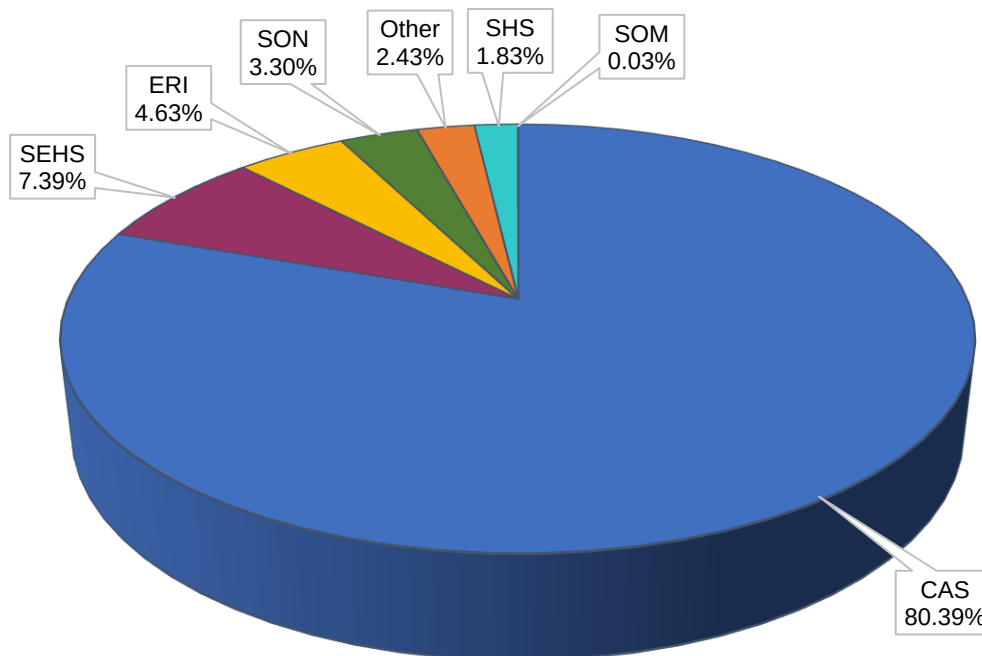
<i>School of Medicine</i>	FY2017	FY2018
<i>SOM Total</i>	6	3

<i>School of Nursing</i>	FY2017	FY2018
<i>SON Total</i>	5	3

<i>Other</i>	FY2017	FY2018
<i>Academic Affairs</i>	1	0
<i>Center for Multicultural Initiatives</i>	1	1
<i>Graduate Study</i>	2	0
<i>Library</i>	1	0
<i>Macomb-OU Incubator</i>	1	0
<i>Meadow Brook Hall</i>	0	1
<i>OU INC</i>	1	0
<i>Police Department</i>	1	0
<i>Pre-College Programs</i>	1	1
<i>The Research Office</i>	3	1
<i>Student Affairs</i>	1	0
<i>Upward Bound</i>	1	0
<i>Other Total</i>	14	4

Percentage and Amounts Requested by Academic Unit

FY 2018 • Amount Requested by Academic Unit



N = \$48,495,184

Amount Requested by Academic Unit, FY 2015-2018

Academic Unit	FY2015	FY2016	FY2017	FY2018	Grand Total
CAS	32,622,644	27,615,238	46,189,248	32,526,732	138,953,862
ERI	2,458,410	4,196,703	0	1,875,000	8,530,113
SBA	39,439	337,614	566,257	0	943,310
SECS	11,545,774	9,061,603	8,088,067	8,035,043	36,730,487
SEHS	901,786	7,100,114	2,379,048	2,991,058	13,372,006
SHS	2,627,313	872,261	1,043,560	739,423	5,282,557
SOM	584,466	483,014	116,632	10,250	1,194,362
SON	1,645,936	1,966,846	1,259,052	1,335,108	6,206,942
Other	829,880	1,415,197	4,984,757	982,570	8,212,404
Grand Total	\$53,255,648	\$53,048,590	\$64,626,621	\$48,495,184	\$219,426,043

Proposal Funding Requested by Academic Unit

<i>College of Arts & Sciences</i>	FY2017	FY2018
<i>Art & Art History</i>	20,000	20,000
<i>Biological Sciences</i>	14,187,434	14,278,109
<i>Chemistry</i>	19,322,991	12,339,927
<i>Mathematics and Statistics</i>	315,213	266,659
<i>Music, Theatre and Dance</i>	17,150	0
<i>Physics</i>	9,563,836	5,176,550
<i>Psychology</i>	2,709,202	389,779
<i>Sociology and Anthropology</i>	28,422	32,991
<i>Writing and Rhetoric</i>	25,000	0
CAS Total	\$46,189,248	\$32,526,732

<i>Eye Research Institute</i>	FY2017	FY2018
ERI Total	\$0	\$1,875,000

<i>School of Business Administration</i>	FY2017	FY2018
<i>Decision and Information Science</i>	549,507	0
<i>Management and Marketing</i>	16,750	0
SBA Total	\$566,257	\$0

<i>School of Engineering and Computer Science</i>	FY2017	FY2018
<i>Computer Science and Engineering</i>	2,160,950	2,118,370
<i>Electrical and Computer Engineering</i>	2,316,950	1,576,381
<i>Industrial and Systems Engineering</i>	706,838	1,111,279
<i>Mechanical Engineering</i>	2,903,329	3,229,013
SECS Total	\$8,088,067	\$8,035,043

Proposal Funding Requested by Academic Unit, continued

<i>School of Education and Human Services</i>	FY2017	FY2018
<i>Human Development and Child Studies</i>	2,088,040	1,604,563
<i>Organizational Leadership</i>	177,008	264,000
<i>Galileo Institute for Teacher Leadership</i>	0	121,905
<i>Reading and Language Arts</i>	114,000	1,000,590
<i>SEHS Total</i>	\$2,379,048	\$2,991,058

<i>School of Health Sciences</i>	FY2017	FY2018
<i>Interdisciplinary Health Science</i>	1,010,260	739,423
<i>Human Movement Science</i>	33,300	0
<i>SHS Total</i>	\$1,043,560	\$739,423

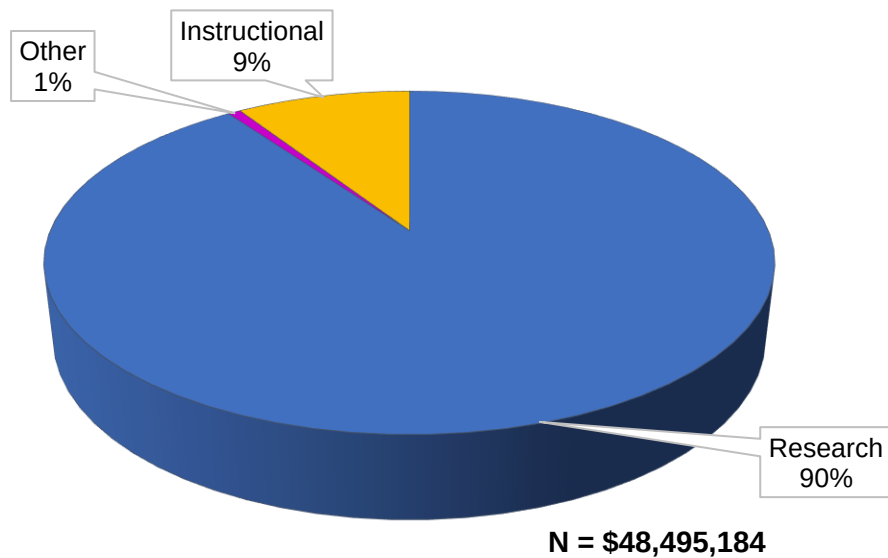
<i>School of Medicine</i>	FY2017	FY2018
<i>SOM Total</i>	\$116,632	\$10,250

<i>School of Nursing</i>	FY2017	FY2018
<i>SON Total</i>	\$1,259,052	\$1,335,108

<i>Other</i>	FY2017	FY2018
<i>Academic Affairs</i>	100,000	0
<i>Center for Multicultural Initiatives</i>	91,364	645,390
<i>Graduate Study</i>	200,000	0
<i>Library</i>	6,410	0
<i>Macomb-OU Incubator</i>	269,205	0
<i>Meadow Brook Hall</i>	0	262,000
<i>OU INC</i>	99,025	0
<i>Police Department</i>	7,902	0
<i>Pre-College Programs</i>	87,036	62,680
<i>Student Affairs</i>	50,000	0
<i>The Research Office</i>	997,965	12,500
<i>Upward Bound</i>	3,075,850	0
<i>Other Total</i>	\$4,984,757	\$982,570

FY 2018 Proposal Funding Requested by Purpose

FY2018 • Amount Requested by Purpose



<i>College of Arts & Sciences</i>	Research	Instructional	Other Sponsored Activities
<i>Art and Art History</i>	0	0	20,000
<i>Biological Sciences</i>	14,278,109	0	0
<i>Chemistry</i>	12,339,927	0	0
<i>Mathematics and Statistics</i>	266,659	0	0
<i>Physics</i>	5,176,550	0	0
<i>Psychology</i>	389,779	0	0
<i>Political Science</i>	0	22,717	0
<i>Sociology and Anthropology</i>	7,999	0	24,992
<i>CAS Total</i>	\$ 32,459,023	\$22,717	\$44,992

<i>Eye Research Institute</i>	Research	Instructional	Other Sponsored Activities
ERI Total	\$1,875,000	\$0	\$0

<i>School of Engineering & Computer Science</i>	Research	Instructional	Other Sponsored Activities
<i>Computer Science and Engineering</i>	2,018,370	100,000	0
<i>Electrical and Computer Engineering</i>	1,576,381	0	0
<i>Industrial and Systems Engineering</i>	1,087,535	23,744	0
<i>Mechanical Engineering</i>	2,313,154	915,859	0
<i>SECS Total</i>	\$6,995,440	\$1,039,603	\$0

FY 2018 Proposal Funding Requested by Purpose, continued

<i>School of Education & Human Services</i>	Research	Instructional	Other Sponsored Activities
<i>Human Development and Child Studies</i>	1,449,997	154,566	0
<i>Organizational Leadership</i>	0	335,909	0
<i>Reading and Language Arts</i>	50,000	950,590	0
<i>Teacher Development and Educational Studies</i>	49,996	0	0
SEHS Total	\$1,549,993	\$1,441,065	\$0

<i>School of Health Sciences</i>	Research	Instructional	Other Sponsored Activities
<i>Interdisciplinary Health Sciences</i>	734,423	0	0
<i>Human Movement Science</i>	5,000	0	0
SEHS Total	\$739,423	\$0	\$0

<i>School of Medicine</i>	Research	Instructional	Other Sponsored Activities
SOM Total	\$ 8,000	\$0	\$2,250

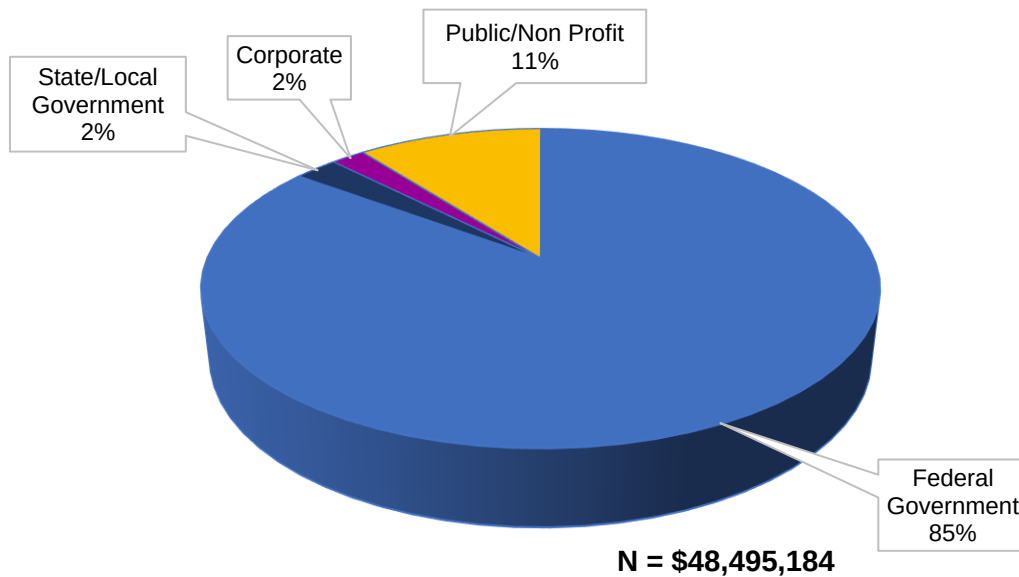
<i>School of Nursing</i>	Research	Instructional	Other Sponsored Activities
SON Total	\$88,442	\$1,246,666	\$0

<i>Other</i>	Research	Instructional	Other Sponsored Activities
<i>Center for Multicultural Initiatives</i>	0	645,390	0
<i>Macomb-OU Incubator</i>	0	0	0
<i>Meadow Brook Estate</i>	0	0	262,000
<i>OU INC</i>	0	0	0
<i>Pre-College Programs</i>	0	62,680	0
<i>The Research Office</i>	0	0	12,500
Other Total	\$0	\$708,070	\$274,500

<i>Oakland University Total</i>	Research	Instructional	Other Sponsored Activities
Grand Total	\$43,715,321	\$4,458,121	\$321,742

FY 2018 Proposal Funding Requested by Source

FY2018 • Amount Requested by Source



<i>College of Arts & Sciences</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Art and Art History</i>	0	20,000	0	0
<i>Biological Sciences</i>	13,397,577	0	0	880,532
<i>Chemistry</i>	10,279,409	0	0	2,060,518
<i>Mathematics and Statistics</i>	224,659	0	0	42,000
<i>Physics</i>	4,928,050	0	0	248,500
<i>Psychology</i>	389,779	0	0	0
<i>Political Science</i>	0	0	0	22,717
<i>Sociology and Anthropology</i>	0	0	0	32,991
<i>CAS Total</i>	\$29,219,474	\$20,000	\$0	\$3,287,258

<i>Eye Research Institute</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>ERI Total</i>	\$1,875,000	\$0	\$0	\$0

<i>School of Engineering & Computer Science</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Computer Science and Engineering</i>	1,980,408	0	54,810	83,152
<i>Electrical and Computer Engineering</i>	1,246,599	0	329,782	0
<i>Industrial and Systems Engineering</i>	842,839	0	244,696	23,744
<i>Mechanical Engineering</i>	1,332,714	895,859	294,492	705,948
<i>SECS Total</i>	\$ 5,402,560	\$ 895,859	\$ 923,780	\$ 812,844

FY 2018 Proposal Funding Requested by Source, continued

<i>School of Education & Human Services</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Human Development and Child Studies</i>	1,399,997	154,566	0	50,000
<i>Organizational Leadership</i>	0	71,909	0	264,000
<i>Reading and Language Arts</i>	950,590	0	0	50,000
<i>Teacher Development & Educational Studies</i>	0	0	0	49,996
SEHS Total	\$2,350,587	\$226,475	\$0	\$413,996

<i>School of Health Sciences</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Interdisciplinary Health Sciences</i>	232,543	10,000	0	491,880
<i>Human Movement Science</i>	0	0	0	5,000
SHS Total	\$232,543	\$10,000	\$0	\$496,880

<i>School of Medicine</i>	Federal	State/Local	Corporate	Public/ Nonprofit
SOM Total	\$3,000	\$0	\$0	\$7,250

<i>School of Nursing</i>	Federal	State/Local	Corporate	Public/ Nonprofit
SON Total	\$1,330,108	\$0	\$0	\$5,000

<i>Other</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Center for Multicultural Initiatives</i>	0	645,390	0	0
<i>Macomb-OU Incubator</i>	0	0	0	0
<i>Meadow Brook Estate</i>	262,000	0	0	0
<i>OU INC</i>	0	0	0	0
<i>Pre-College Programs</i>	62,680	0	0	0
<i>Research Office</i>	0	12,500	0	0
Other Total	\$ 324,680	\$ 657,890	\$0	\$0

<i>Oakland University Total</i>	Federal	State/Local	Corporate	Public/ Nonprofit
Grand Total	\$40,737,952	\$1,180,224	\$923,780	\$5,023,228

Research, Innovation, and Engagement Town Hall, Winners 2017

President Ora Hirsch Pescovitz Innovation Award – Xiangqun Zeng, Chemistry

Frank Giblin Lifetime Achievement Award – Frank Giblin, Eye Research Institute

Researcher of the Year – Thomas Raffel, Biological Sciences, College of Arts and Sciences

Most Research Active – Christina Papadimitriou, Interdisciplinary Health Sciences, School of Health Sciences

Most Research Active – Andrei Slavin, Physics, College of Arts and Sciences

Most Active Grant Seeker – Xiangqun Zeng, Chemistry, College of Arts and Sciences

Outstanding Research Department – Biological Sciences, College of Arts and Sciences

Outstanding Junior Investigator – Randal Westrick, Biological Sciences, College of Arts and Sciences

Best Team Player – Scott Pickett, Psychology, College of Arts and Sciences

PI Academy for Research and Engagement, Class of 2018

Shadi Alawneh, Electrical and Computer Engineering, School of Engineering and Computer Science
S. Ali Arefifar, Electrical and Computer Engineering, School of Engineering and Computer Science
Sara Arena, Physical Therapy, School of Health Sciences
Mehdi Bagherzadeh, Computer Science and Engineering, School of Engineering and Computer Science
Sara Blumer-Schuetz, Biological Sciences, College of Arts and Sciences
Daniel DeVescovo, Mechanical Engineering, School of Engineering and Computer Science
Caitlin Demsky, Management, School of Business Administration
Courtney Brannon Donoghue, Cinema Studies, College of Arts and Sciences
Joyce Havstad, Philosophy, College of Arts and Sciences
Wendi Johnson, Criminal Justice, College of Arts and Sciences
Daniel Llamocca, Electrical and Computer Engineering, School of Engineering and Computer Science
Wing-Yue Geoffrey Louie, Electrical and Computer Engineering, School of Engineering and Computer Science
Jonathan Maisonneuve, Mechanical Engineering, School of Engineering and Computer Science
Khalid Mahmood Malik, Computer Science and Engineering, School of Engineering and Computer Science
Matthew McLarnon, Psychology, College of Arts and Sciences
Nasim Nezamoddini, Industrial and Systems Engineering, School of Engineering and Computer Science
Maria Paino, Sociology, College of Arts and Sciences
Julia Paul, School of Nursing
Melissa Reznar, Interdisciplinary Health Sciences, School of Health Sciences
Victoria Roach, Anatomy, Oakland University William Beaumont School of Medicine
Kwame Sakyi, Public Health, School of Health Sciences
Mi Hye Song, Biological Sciences, College of Arts and Sciences
Laurel Dolin Stevenson, Interdisciplinary Health Sciences, School of Health Sciences
Luis Villa Diaz, Biological Sciences, College of Arts and Sciences
Tomoko Wakabayashi, Human Development and Child Studies, School of Education and Human Services
Colin Wu, Chemistry, College of Arts and Sciences
Ziming Yang, Chemistry, College of Arts and Sciences
Wei Zhang, Physics, College of Arts and Sciences
Peng Zhao, Mechanical Engineering, School of Engineering and Computer Science

The Research Office

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