

OAKLAND UNIVERSITY RESEARCH REPORT

FY 2019



THE RESEARCH OFFICE
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Oakland University

Research Report

Fiscal Year 2019

Cover Art

Left image: Maggie Bohr, Biomedical Science and first year medical student at OUWB
Sara Blumer-Schuetz, Assistant Professor of Biological Sciences

Top right image: Jennifer Lucarelli, Associate Professor of Interdisciplinary Health Sciences

Lower right image: David Dulio, Professor of Political Science

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Preface

The Research Office is proud to present the Fiscal Year (FY) 2019 Annual Report describing external funding at Oakland University (OU). This report gives 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 2019.

During FY 2019, 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, providing experiential learning opportunities that 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 2019, 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 2019. 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 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 four 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 2018 Research, Innovation, and Engagement Town Hall and the PI Academy for Research and Engagement Class of 2019.

Research

A project is classified as research when it involves a systematic study to gain an understanding of a phenomenon. Research culminates in new knowledge and may be either fundamental or applied. A project that funds the maintenance or creation of research facilities, disseminates project findings, or trains individuals in research techniques or methods would also be classified as research.

Instruction

A project is classified as instruction when it incorporates the teaching and training activities of the institution (with the exception of research training, as mentioned above). These projects are intended to elicit some measure of educational change in learners. Instruction includes all teaching and training activities, credit or non-credit.

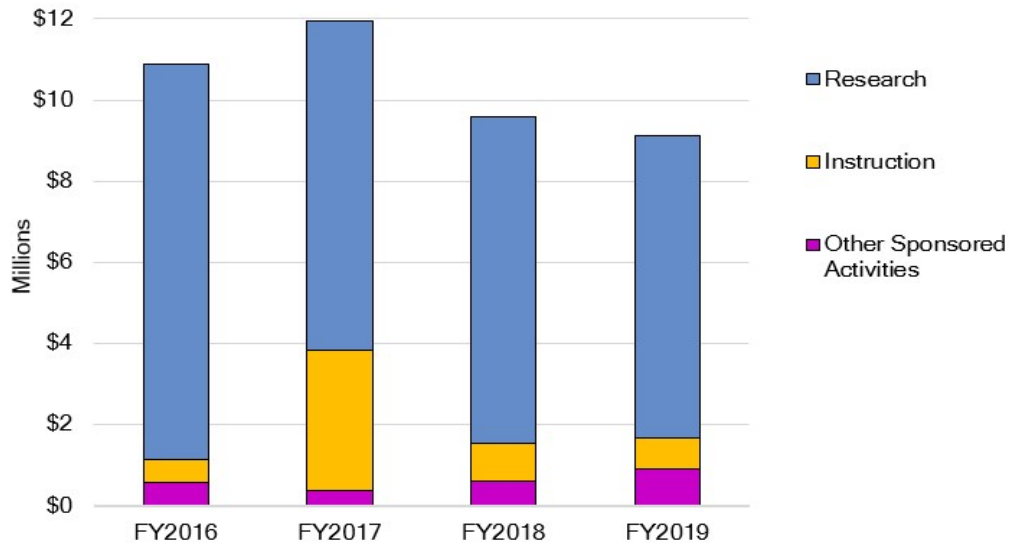
Other Sponsored Activities

A project is classified as “Other Sponsored Activity” when it is neither research nor instruction. These projects include public service that engages OU resources to meet local, regional, national, or international needs. Other activities include student support programs, testing and evaluation, joint appointment agreements, and some workshop or travel grants.

“Other” Academic Unit

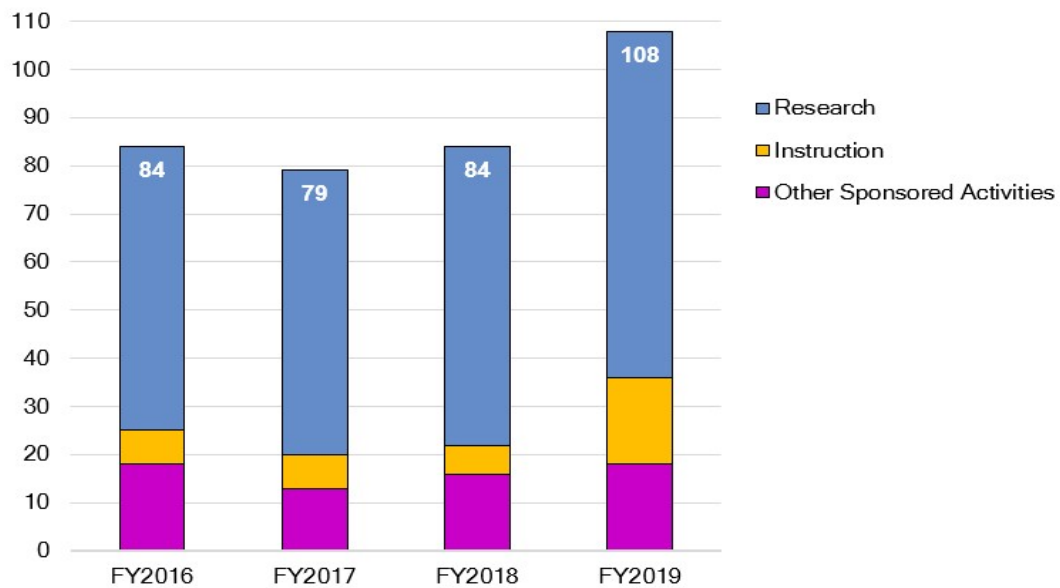
The term “Other” is used for sponsored activities that fall outside the formal academic unit structure. This includes, but is not limited to, campus areas such as Academic Affairs Office, Athletics Administration, Campus Police, Campus Recreation, Center for Multicultural Initiatives, Facilities Management, 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	FY2016	FY2017	FY2018	FY2019	Total
Research	9,732,985	8,126,866	8,074,392	7,465,280	33,399,523
Instruction	585,612	3,438,237	910,416	762,032	5,696,297
Other Sponsored Activities	559,440	379,769	613,804	894,417	2,447,430
Total	\$10,878,037	\$11,944,872	\$9,598,612	\$9,121,729	41,543,250

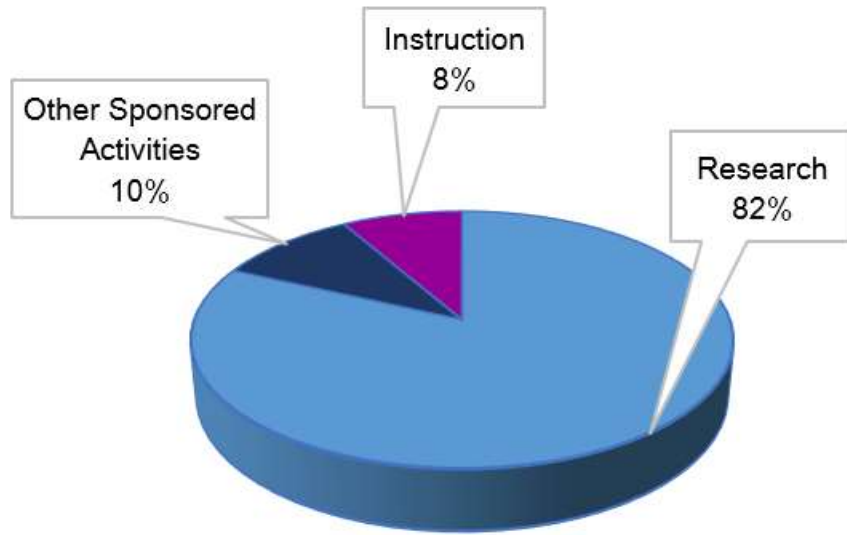


Number of Awards

Purpose of Funding	FY2016	FY2017	FY2018	FY2019	Total
Research	59	59	62	72	252
Instruction	7	7	6	18	38
Other Sponsored Activities	18	13	16	18	65
Total	84	79	84	108	355

Percentages and Number of Awards by Purpose

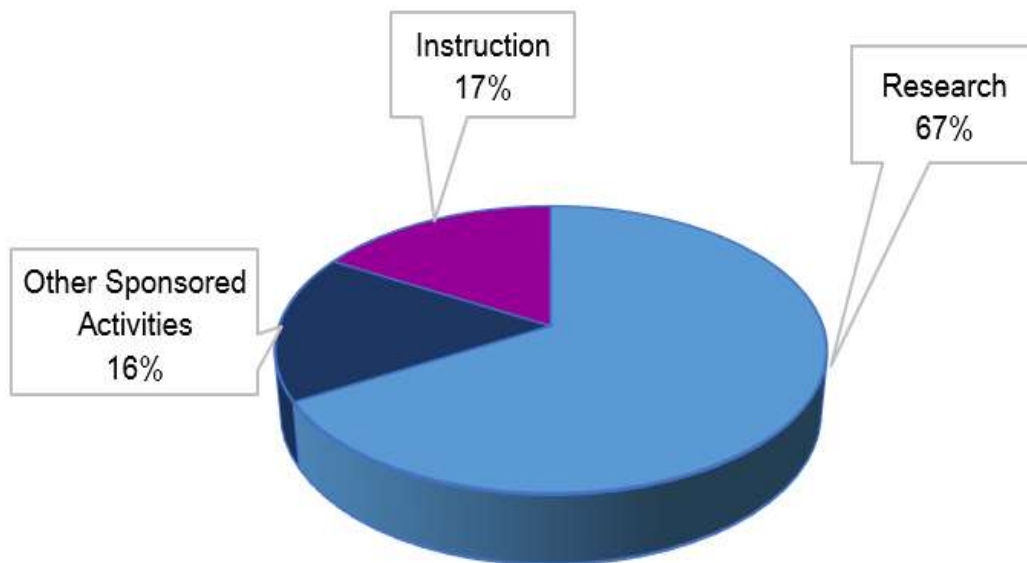
FY2019 • Funding Amount Percentages



N = \$9,121,729

Purpose of Funding	Number of Awards	Total
Research	72	7,465,280
Instruction	18	762,032
Other Sponsored Activities	18	894,417
Total	108	\$9,121,729

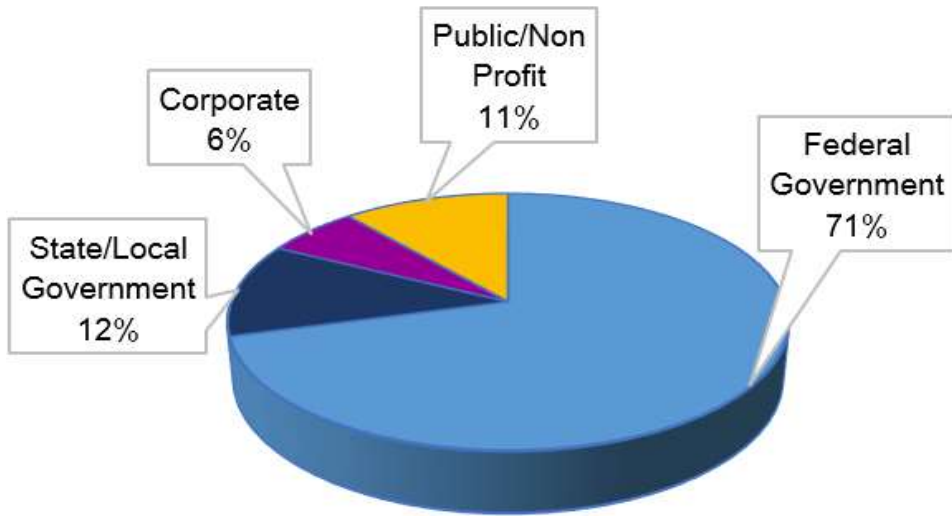
FY2019 • Number of Awards - Percentage by Purpose



N = 108

Percentages and Award Amounts by Source

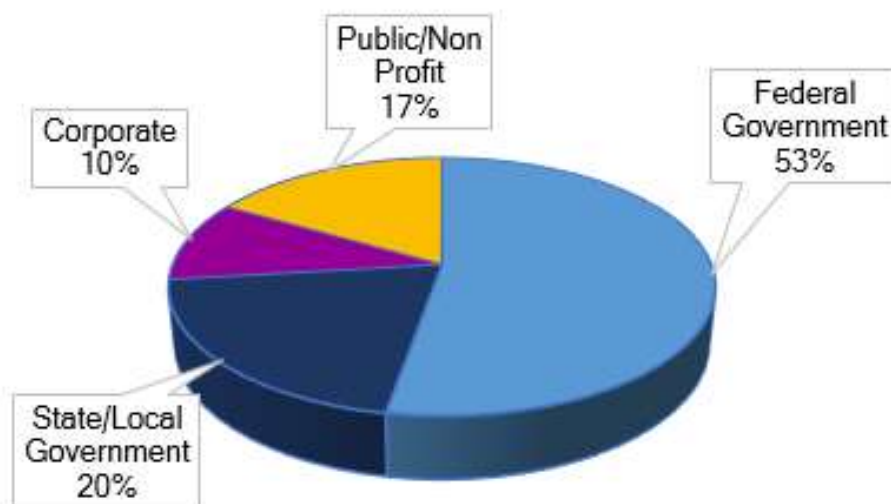
FY2019 • Funding Amount Percentages by Source



N = \$9,121,729

Source of Funding	Number of Awards	Total
Federal Government	57	6,451,499
State/Local Government	22	1,080,201
Corporate Sponsors	11	592,383
Public/Nonprofit Sponsors	18	997,646
Total	108	\$9,121,729

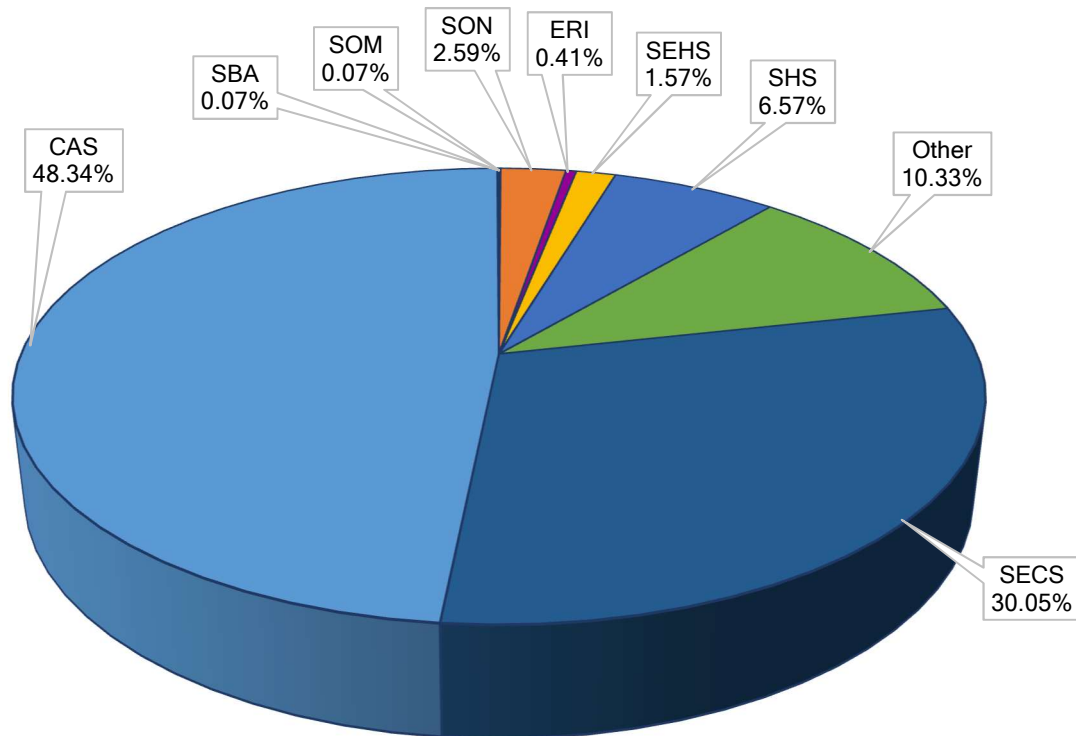
FY2019 • Number of Awards by Source



N = 108

Percentages and Award Amounts by Academic Unit

FY2019 • Funding Amount Percentages by Academic Unit



Academic Unit	FY2016	FY2017	FY2018	FY2019	Total
College of Arts and Sciences	4,739,354	4,491,729	5,075,991	4,409,055	18,716,129
Eye Research Institute	2,220,027	0	63,677	37,500	2,321,204
School of Business Administration	0	0	16,350	6,420	22,770
School of Engineering and Computer Science	2,536,276	2,813,107	2,604,175	2,741,069	10,694,627
School of Education and Human Services	398,000	625,994	97,590	143,090	1,264,674
School of Health Sciences	28,061	197,346	522,524	599,529	1,347,460
School of Medicine	11,568	63,984	0	6,000	81,552
School of Nursing	266,545	20,450	62,304	236,354	585,653
Other	678,206	3,732,262	1,156,001	942,712	6,509,181
Total	\$10,878,037	\$11,944,872	\$9,598,612	\$9,121,729	41,543,250

FY 2019 Department Rankings

	Department/Unit	Dollars	Parent Unit
1	Biological Sciences	1,337,469	College of Arts and Sciences
2	Chemistry	1,210,223	College of Arts and Sciences
3	Mechanical Engineering	1,101,111	College of Engineering & Computer Science
4	Physics	973,735	College of Arts and Sciences
5	Computer Science and Engineering	907,604	College of Engineering & Computer Science

FY 2019 Non-Academic and Other Unit Rankings

	Department/Unit	Dollars
1	Pre-College Programs	212,812
2	Macomb-OU Incubator	197,995
3	Research Office	162,360
4	Upward Bound	113,935
5	Graduate Study and Lifelong Learning	104,772

Comparison of FY 2018 and FY 2019

Amounts Awarded by Academic Unit and Other Administrative Units

<i>College of Arts and Sciences</i>	FY2018 Awards	FY2019 Awards
<i>Art and Art History</i>	0	10,000
<i>Biological Sciences</i>	2,067,691	1,337,469
<i>Chemistry</i>	1,163,000	1,210,223
<i>Mathematics and Statistics</i>	0	108,215
<i>Philosophy</i>	0	8,297
<i>Physics</i>	1,395,296	973,735
<i>Psychology</i>	251,788	651,028
<i>Sociology, Anthropology, Social Work and Criminal Justice</i>	198,216	110,088
<i>CAS Total</i>	\$5,075,991	\$4,409,055

<i>Eye Research Institute</i>	FY2018 Awards	FY2019 Awards
<i>ERI Total</i>	\$63,677	37,500

<i>School of Business Administration</i>	FY2018 Awards	FY2019 Awards
<i>SBA Total</i>	\$16,350	6,420

Comparison of FY2018 and FY2019, continued

<i>School of Engineering and Computer Science</i>	FY2018 Awards	FY2019 Awards
<i>Computer Science and Engineering</i>	452,486	907,604
<i>Electrical and Computer Engineering</i>	426,018	530,342
<i>Industrial and Systems Engineering</i>	23,744	202,012
<i>Mechanical Engineering</i>	1,701,927	1,101,111
<i>SECS Total</i>	\$2,604,175	2,741,069

<i>School of Education and Human Services</i>	FY2018 Awards	FY2019 Awards
<i>Human Development and Child Studies</i>	97,590	139,515
<i>Organizational Leadership</i>	0	1,500
<i>Reading and Language Arts</i>	0	2,075
<i>SEHS Total</i>	\$97,590	\$143,090

<i>School of Health Sciences</i>	FY2018 Awards	FY2019 Awards
<i>Human Movement Science</i>	1,000	221,558
<i>Interdisciplinary Health Sciences</i>	521,524	278,909
<i>Public and Environmental Wellness</i>	0	99,062
<i>SHS Total</i>	\$522,524	599,529

<i>School of Medicine</i>	FY2018 Awards	FY2019 Awards
<i>SOM Total</i>	\$0	6,000

<i>School of Nursing</i>	FY2018 Awards	FY2019 Awards
<i>SON Total</i>	\$62,304	236,354

Comparison of FY2018 and FY2019, continued

<i>Other</i>	FY2018 Awards	FY2019 Awards
<i>Center for Multicultural Initiatives</i>	645,390	100,483
<i>Diversity, Equity and Inclusion</i>	0	16,355
<i>Graduate Study and Lifelong Learning</i>	0	104,772
<i>Library</i>	6,410	0
<i>Macomb-OU Incubator</i>	145,946	197,995
<i>OU Incubator</i>	45,950	34,000
<i>Pre-College Programs</i>	62,680	212,812
<i>Research Office</i>	249,625	162,360
<i>Upward Bound</i>	0	113,935
<i>Other Total</i>	\$1,156,001	\$942,712

<i>Oakland University Total</i>	FY2018 Awards	FY2019 Awards
<i>Grand Total</i>	\$9,598,612	\$9,121,729

FY 2019 Amount Awarded by Unit and Purpose

<i>College of Arts and Sciences</i>	Research	Instruction	Other Sponsored Activities
<i>Art and Art History</i>	0	0	10,000
<i>Biological Sciences</i>	1,345,469	0	0
<i>Chemistry</i>	1,210,223	0	0
<i>Mathematics and Statistics</i>	108,215	0	0
<i>Philosophy</i>	8,297	0	0
<i>Physics</i>	965,735	0	0
<i>Psychology</i>	651,028	0	0
<i>Sociology and Anthropology</i>	0	0	110,088
<i>CAS Total</i>	4,288,967	\$0	\$120,088

<i>Eye Research Institute</i>	Research	Instruction	Other Sponsored Activities
<i>ERI Total</i>	37,500	\$0	\$0

<i>School of Business Administration</i>	Research	Instruction	Other Sponsored Activities
<i>Management and Marketing</i>	0	6,420	0
<i>SBA Total</i>	0	\$6,420	\$0

<i>School of Engineering and Computer</i>	Research	Instruction	Other Sponsored Activities
<i>Computer Science and Engineering</i>	810,554	97,050	0
<i>Electrical and Computer Engineering</i>	530,342	0	0
<i>Industrial and Systems Engineering</i>	202,012	0	0
<i>Mechanical Engineering</i>	990,376	110,735	0
<i>SECS Total</i>	\$2,533,284	\$207,785	\$0

<i>School of Education and Human Services</i>	Research	Instruction	Other Sponsored Activities
<i>Human Development and Child Studies</i>	0	22,168	117,347
<i>Organizational Leadership</i>	0	0	1,500
<i>Reading and Language Arts</i>	0	2,075	0
<i>SEHS Total</i>	\$0	\$24,243	\$118,847

FY 2019 Amount Awarded by Unit and Purpose, continued

<i>School of Health Sciences</i>	Research	Instruction	Other Sponsored Activities
<i>Human Movement Science</i>	221,558	0	0
<i>Interdisciplinary Health Sciences</i>	278,909	0	0
<i>Public and Environmental Wellness</i>	99,062	0	0
<i>SHS Total</i>	\$599,529	\$0	\$0

<i>School of Nursing</i>	Research	Instruction	Other Sponsored Activities
<i>SON Total</i>	0	\$236,354	\$0

<i>School of Medicine</i>	Research	Instruction	Other Sponsored Activities
<i>SOM Total</i>	\$6,000	\$0	\$0

<i>Other</i>	Research	Instruction	Other Sponsored Activities
<i>Center for Multicultural Initiatives</i>	0	100,483	0
<i>Diversity, Equity and Inclusion</i>	0	0	16,355
<i>Graduate Study and Lifelong Learning</i>	0	0	104,772
<i>Macomb-OU Incubator</i>	0	0	197,995
<i>OU Incubator</i>	0	0	34,000
<i>Pre-College Programs</i>	0	72,812	140,000
<i>Research Office</i>	0	0	162,360
<i>Upward Bound</i>	0	113,935	0
<i>Other Total</i>	\$0	\$287,230	\$655,482

<i>Oakland University Total</i>	Research	Instruction	Other Sponsored Activities
<i>Grand Total</i>	\$7,465,280	\$762,032	\$894,417

FY 2019 Amount Awarded by Unit and Source

<i>College of Arts and Sciences</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Art and Art History</i>	10,000	0	0	0
<i>Biological Sciences</i>	1,255,911	0	0	89,558
<i>Chemistry</i>	894,281	0	0	315,942
<i>Mathematics and Statistics</i>	108,215	0	0	0
<i>Philosophy</i>	0	0	0	8,297
<i>Physics</i>	965,735	0	0	0
<i>Psychology</i>	651,028	0	0	0
<i>Sociology and Anthropology</i>	0	0	0	110,088
<i>CAS Total</i>	\$3,885,170	\$0	\$0	523,885

<i>Eye Research Institute</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>ERI Total</i>	\$37,500	\$0	\$0	\$0

<i>School of Business Administration</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Management and Marketing</i>	0	0	6,420	0
<i>SBA Total</i>	\$0	\$0	\$6,420	\$0

<i>School of Engineering and Computer Science</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Computer Science and Engineering</i>	867,604	0	0	40,000
<i>Electrical and Computer Engineering</i>	316,682	0	213,660	0
<i>Industrial and Systems Engineering</i>	152,012	0	50,000	0
<i>Mechanical Engineering</i>	710,073	88,735	302,303	0
<i>SECS Total</i>	\$2,046,371	\$88,735	\$565,963	\$40,000

<i>School of Education and Human Services</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Human Development and Child Studies</i>	0	139,515	0	0
<i>Organizational Leadership</i>	0	0	0	1,500
<i>Reading and Language Arts</i>	0	0	0	2,075
<i>SEHS Total</i>	\$0	\$139,515	\$0	\$3,575

FY 2019 Amount Awarded by Unit and Source, continued

<i>School of Health Sciences</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Human Movement Science</i>	0	0	20,000	201,558
<i>Interdisciplinary Health Sciences</i>	49,281	7,000	0	222,628
<i>Public and Environmental Wellness</i>	95,009	4,053	0	0
<i>SHS Total</i>	\$144,290	\$11,053	\$20,000	\$424,186

<i>School of Medicine</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>SOM Total</i>	\$0	\$0	\$0	\$6,000

<i>School of Nursing</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>SON Total</i>	\$224,233	\$12,121	\$0	\$0

<i>Other</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Center for Multicultural Initiatives</i>	0	100,483	0	0
<i>Diversity, Equity and Inclusion</i>	0	16,355	0	0
<i>Graduate Study and Lifelong Learning</i>	0	104,772	0	0
<i>Macomb OU Incubator</i>	0	197,995	0	0
<i>OU Incubator</i>	0	34,000	0	0
<i>Pre-College Programs</i>	0	212,812	0	0
<i>Research Office</i>	0	162,360	0	0
<i>Upward Bound</i>	113,935	0	0	0
<i>Other Total</i>	\$113,935	\$828,777	\$0	\$0

<i>Oakland University Total</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Grand Total</i>	\$6,451,499	\$1,080,201	\$592,383	\$997,646

Amount Awarded by Federal Agency *

<i>Agency/Sponsor</i>	FY2016	FY2017	FY2018	FY2019
<i>Army Educational Outreach Program</i>	0	0	4,000	0
<i>Centers for Disease Control and Prevention</i>	0	0	455,524	0
<i>Environmental Protection Agency*</i>	0	0	90,544	0
<i>Health Resources and Services Administration</i>	58,346	0	26,992	224,233
<i>HighScope Research Foundation</i>	0	560,994	0	0
<i>Los Alamos National Lab</i>	0	69,957	2,700	0
<i>Michigan Council for Arts and cultural Affairs</i>	0	0	0	10,000
<i>Michigan Department of Labor/Economic Growth</i>	0	196,023	0	0
<i>Michigan Department of Natural Resources</i>	0	191,888	0	0
<i>USAID</i>	0	0	56,844	0
<i>National Advanced Mobility Consortium</i>	0	0	0	75,000
<i>National Aeronautics and Space Administration</i>	628,713	52,500	41,500	70,000
<i>National Center for Manufacturing Sciences</i>	507,772	105,107	853,372	0
<i>National Endowment for the Humanities</i>	0	0	6,410	0
<i>National Institutes of Health</i>	5,167,979	1,277,018	3,003,797	1,494,402
<i>National Science Foundation</i>	1,826,724	3,410,486	979,356	3,289,388
<i>National Security Agency</i>	119,847	100,000	200,000	97,050
<i>National Writing Project</i>	0	15,000	0	0
<i>NIDILRR-Rehabilitation Research & Training Ctrs</i>	0	55,428	0	0
<i>Pacific Northwest National Laboratory</i>	0	82,999	78,085	0
<i>SUNY Downstate Medical Center</i>	135,000	0	0	0
<i>Tuskegee University</i>	0	0	14,994	0
<i>United States Army-TACOM</i>	0	30,000	0	0
<i>United States Army-TARDEC</i>	0	0	0	79,550
<i>United States Army</i>	8,000	4,000	0	2,000
<i>United States Council for Automotive Research</i>	0	80,086	0	0
<i>United States Department of Agriculture</i>	59,277	0	0	83,281
<i>United States Department of Defense</i>	0	0	749,803	678,039
<i>United States Department of Education</i>	0	3,075,850	0	113,935
<i>United States Department of Energy</i>	0	0	0	234,621
<i>University of California</i>	0	430,000	0	0
<i>University of Houston</i>	38,733	0	0	0
<i>University of Iowa</i>	0	9,984	0	0
<i>University of Michigan</i>	0	17,000	320,535	0
<i>Veterans Affairs</i>	0	6,813	0	0
<i>Virginia Polytechnic Institute and State University</i>	240,000	0	240,000	0
<i>Wayne State University</i>	70,000	0	0	0
<i>Oakland University Grand Total</i>	\$8,860,391	\$9,771,133	\$7,124,456	\$6,451,499

* Includes flow through funding

Amount Awarded by State/Local Agency

<i>Agency/Sponsor</i>	FY2016	FY2017	FY2018	FY2019
<i>Grand Valley State University</i>	290,390	85,000	0	84,000
<i>Macomb County</i>	9,000	0	0	0
<i>Macomb Intermediate School District</i>	0	0	65,090	67,347
<i>Michigan Council for Arts and Cultural Affairs</i>	0	18,000	0	0
<i>Michigan Department of Education</i>	380,000	0	0	22,168
<i>Michigan Department of Environmental Quality</i>	0	158,314	0	0
<i>Michigan Department of Health and Human Services</i>	0	88,300	32,500	50,000
<i>Michigan Department of Labor and Economic Growth</i>	0	0	62,680	17,600
<i>Michigan Economic Development Corporation</i>	25,000	25,000	442,521	310,355
<i>Michigan State Police</i>	10,550	0	0	16,355
<i>Michigan State University</i>	5,800	0	0	0
<i>Michigan Technological University</i>	0	0	10,000	0
<i>Oakland County Health Division</i>	3,761	5,487	6,000	7,000
<i>Oakland County Homeland Security</i>	7,902	0	0	0
<i>Oakland Schools</i>	0	56,800	0	0
<i>State of Michigan</i>	91,364	91,364	734,125	505,376
<i>Oakland University Grand Total</i>	\$ 823,767	\$528,265	\$1,352,916	1,080,201

Amount Awarded by Corporations

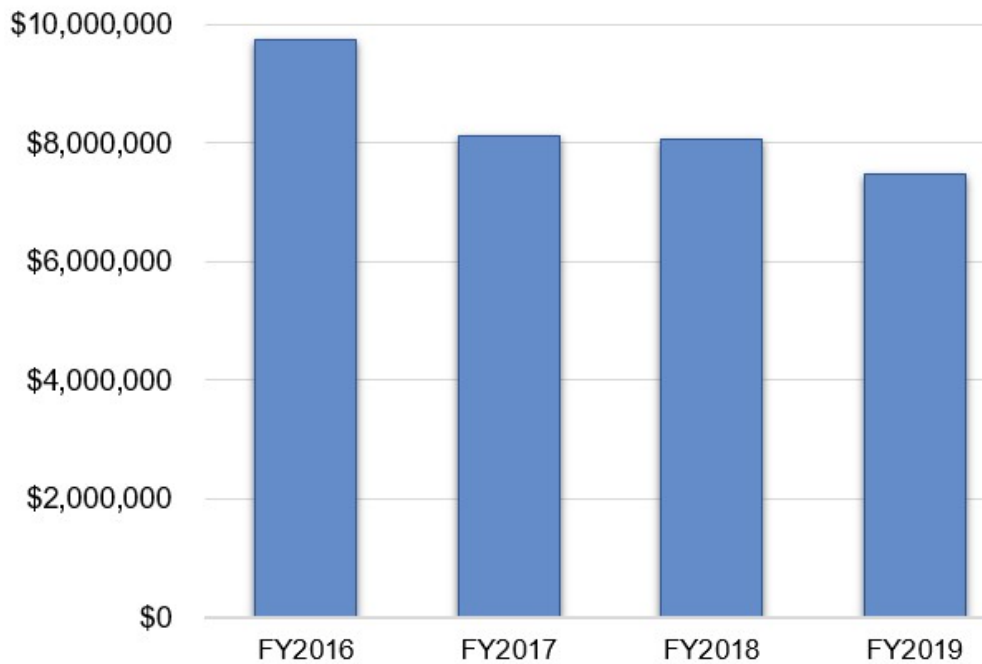
<i>Agency/Sponsor</i>	FY2016	FY2017	FY2018	FY2019
<i>ANLARA</i>	10,000	0	0	0
<i>Auto/ Steel Partnership</i>	53,072	0	0	0
<i>Balance Tracking Systems</i>	0	0	0	20,000
<i>BetaCae Systems</i>	0	63,900	0	0
<i>Brar Technology</i>	5,027	0	0	0
<i>Comcast Innovation Fund</i>	0	0	50,000	0
<i>Consumers Energy</i>	0	0	54,000	0
<i>Continental Automotive Systems, Inc.</i>	0	0	0	41,775
<i>DTE Energy</i>	35,000	0	0	0
<i>Dura Automotive, LLC</i>	0	0	0	132,312
<i>Eaton Corporation</i>	0	0	46,000	0
<i>Electric Power Research Institute, Inc.</i>	0	0	0	25,000
<i>Fiat Chrysler Automobiles</i>	270,424	312,861	317,264	310,528
<i>Ford Motor Company</i>	149,999	0	0	0
<i>Hitachi America, Ltd.</i>	0	0	16,350	6,420
<i>Hyundai Mobis Company</i>	0	0	60,000	0
<i>I*Logic Inc</i>	5,000	0	0	0
<i>Magna Electronics</i>	143,819	0	0	0
<i>Molex, LLC</i>	0	0	0	56,348
<i>PPG Industries, Inc.</i>	0	74,550	0	0
<i>Retinal Solutions, LLC</i>	81,150	0	0	0
<i>X-wave Innovations</i>	0	0	20,000	0
<i>Oakland University Grand Total</i>	\$753,491	\$451,311	\$563,614	592,383

Amount Awarded by Public/Nonprofit Sponsors

Agency/Sponsor	FY2016	FY2017	FY2018	FY2019
<i>Academy of Applied Science</i>	4,000	0	0	0
<i>Alliance of Coalitions for Healthy Communities</i>	0	0	16,500	0
<i>Alpha Foundation</i>	0	0	175,000	0
<i>American Association of Anatomists</i>	0	50,000	0	0
<i>American Cancer Society</i>	0	20,000	0	0
<i>American Chemical Society</i>	55,000	0	0	0
<i>American Educational Research Association</i>	0	0	0	2,075
<i>American Heart Association</i>	4,000	305,031	0	375,942
<i>American Psychological Association</i>	0	1,000	0	0
<i>American Sociological Association</i>	0	0	7,999	0
<i>Arnold P. Gold Foundation</i>	4,000	2,000	0	0
<i>Beaumont Research Institute</i>	0	10,143	0	0
<i>Blue Cross Blue Shield of Michigan Foundation</i>	0	64,000	85,312	6,000
<i>Brain Aneurysm Foundation</i>	0	0	0	40,000
<i>Chiang Ching-Kuo Foundation</i>	17,500	0	0	0
<i>Chicago Assoc for Research and Education in Science</i>	0	8,518	0	0
<i>Community Foundation for Southeastern Michigan</i>	204,000	149,025	0	0
<i>Comprehensive Early Autism Services</i>	0	32,760	0	0
<i>DMC Foundation</i>	41,220	0	0	0
<i>Educas AS</i>	0	0	23,744	0
<i>Eversight</i>	0	0	15,000	0
<i>Foundation for Food and Agriculture Research</i>	0	421,236	0	0
<i>George Washington University</i>	0	0	0	25,119
<i>Golf Ball Divers Alliance</i>	0	0	2,500	0
<i>HAVEN of Oakland County</i>	11,600	0	0	0
<i>Helping Hand for Relief and Development</i>	0	0	38,222	0
<i>Henry Ford Health System</i>	0	0	59,976	0
<i>Hope Warming Center</i>	5,014	0	0	0
<i>Jonas Center for Nursing Excellence</i>	0	10,000	0	0
<i>Judson Center, Inc.</i>	0	0	0	51,526
<i>Lapeer County Community Foundation</i>	5,000	0	0	0
<i>Michigan Council for Arts and Cultural Affairs</i>	12,000	0	0	0
<i>Michigan Health Endowment Fund</i>	0	0	0	301,558
<i>Michigan State Medical Society Foundation</i>	1,304	0	0	0
<i>Michigan Swimmer's Itch Partnership</i>	0	0	0	29,558
<i>National Council of Teachers of English</i>	0	10,000	0	0
<i>National League of Nursing</i>	0	10,450	0	0
<i>National Student Affairs in Higher Education</i>	0	0	0	1,500
<i>Quinnipiac University</i>	1,250	0	0	0
<i>Reading Recovery Council of North America</i>	18,000	0	0	0
<i>Sheriff PAL/ United Way</i>	0	0	0	15,000
<i>Sociologists for Women in Society</i>	0	0	133,373	110,088
<i>Southeast Michigan Health Association</i>	0	0	0	8,297
<i>Stevens Institute of Technology</i>	8,000	0	0	0
<i>The Kresge Foundation</i>	40,000	100,000	0	0
<i>United States Soccer Federation Foundation</i>	8,500	0	0	0
<i>University of Michigan</i>	0	0	0	30,983
Grand Total	\$440,388	\$1,194,163	\$557,626	\$997,646

Amounts and Number of Research Awards

**Research Awards
Fiscal Years 2016-2019**



Purpose of Funding: Research

College/School	FY2016	FY2017	FY2018	FY2019
College of Arts and Sciences	4,727,354	4,425,969	4,942,618	4,288,967
Eye Research Institute	2,220,027	0	63,677	37,500
School of Business Administration	0	0	16,350	0
School of Engineering and Computer Science	2,528,276	2,813,107	2,493,911	2,533,284
School of Education and Human Services	18,000	625,994	0	0
School of Health Sciences	19,561	197,346	522,524	599,529
School of Medicine	11,568	54,000	0	6,000
School of Nursing	208,199	10,450	35,312	0
Total	\$9,732,985	\$8,126,866	\$8,074,392	\$7,465,280

FY 2019 Research Awards by Source

Source	Amount	Amount Percentage	Number of Awards	Number Percentage
Federal	5,984,281	80.1%	46	63.9%
State/Local	11,053	0.2%	2	2.8%
Corporate	585,963	7.9%	10	13.9%
Public/Nonprofit	883,983	11.8%	14	19.4%
Total	\$7,465,280	100.0%	72	100.0%

Research Awards by Department

Fiscal Years 2016 – 2019

<i>College of Arts and Sciences</i>	FY2016	FY2017	FY2018	FY2019
<i>Biological Sciences</i>	729,490	2,578,789	2,067,691	1,345,469
<i>Chemistry</i>	1,130,098	313,845	1,163,000	1,210,223
<i>Mathematics and Statistics</i>	19,847	0	0	108,215
<i>Modern Languages and Literatures</i>	17,500	0	0	0
<i>Philosophy</i>	0	0	0	8,297
<i>Physics</i>	2,818,819	675,829	1,395,296	965,735
<i>Psychology</i>	11,600	797,506	251,788	651,028
<i>Sociology and Anthropology</i>	0	50,000	64,843	0
<i>Writing and Rhetoric</i>	0	10,000	0	0
<i>CAS Total</i>	\$4,727,354	\$4,425,969	\$4,942,618	4,288,967

<i>Eye Research Institute</i>	FY2016	FY2017	FY2018	FY2019
<i>ERI Total</i>	\$2,220,027	\$0	\$63,677	\$37,500

<i>School of Business Administration</i>	FY2016	FY2017	FY2018	FY2019
<i>Decision and Information Sciences</i>	0	0	0	0
<i>Management and Marketing</i>	0	0	16,350	0
<i>SBA Total</i>	\$0	\$0	\$16,350	\$0

<i>School of Engineering and Computer Science</i>	FY2016	FY2017	FY2018	FY2019
<i>Computer Science and Engineering</i>	746,526	1,183,780	342,222	810,554
<i>Electrical and Computer Engineering</i>	117,477	999,299	426,018	530,342
<i>Industrial and Systems Engineering</i>	35,000	55,000	23,744	202,012
<i>Mechanical Engineering</i>	1,629,273	575,028	1,701,927	990,376
<i>SECS Total</i>	\$2,528,276	\$2,813,107	\$2,493,911	\$2,533,284

<i>School of Education and Human Services</i>	FY2016	FY2017	FY2018	FY2019
<i>Educational Leadership</i>	0	0	0	0
<i>Human Development and Child Studies</i>	0	625,994	0	0
<i>Reading and Language Arts</i>	18,000	0	0	0
<i>SEHS Total</i>	\$18,000	\$625,994	\$0	\$0

Research Awards by Department, continued

Fiscal Years 2016 – 2019

<i>School of Health Sciences</i>	FY2016	FY2017	FY2018	FY2019
<i>Human Movement Science</i>	0	23,300	1,000	221,558
<i>Interdisciplinary Health Sciences</i>	19,561	174,046	521,524	278,909
<i>Public and Environmental Wellness</i>	0	0	0	99,062
<i>SHS Total</i>	\$19,561	\$197,346	\$522,524	\$599,529

<i>School of Medicine</i>	FY2016	FY2017	FY2018	FY2019
<i>SOM Total</i>	\$11,568	\$54,000	\$0	\$6,000

<i>School of Nursing</i>	FY2016	FY2017	FY2018	FY2019
<i>SON Total</i>	\$208,199	\$10,450	\$35,312	\$0

<i>Oakland University Total</i>	FY2016	FY2017	FY2018	FY2019
<i>Grand Total Research</i>	\$9,732,985	\$8,126,866	\$8,074,392	\$7,465,280
<i>Grand Total Funding</i>	\$10,878,037	\$11,944,872	\$9,598,612	\$9,121,729

FY 2019 Research Awards by Unit, Department, and Principal Investigator

College of Arts and Sciences

Biological Sciences

Govind, Chhabi; Role of Histone Chaperones in Transcription and Chromatin Structure; National Institutes of Health, \$443,592

Hansen, Fay; Evaluating Antibiotic Resistance in Locally Grown Fresh Produce with the Aim to Enhance Urban Food Sustainability; USDA, \$83,281

Lal, Shailesh; Genetic, Molecular, and Biochemical Dissection of RNA Splicing Factors Critical for Maize Endosperm Development; National Science Foundation, \$97,722

Liu, Zijuan; Role of ZIP8 in Regulation of Liver Methionine Metabolism; National Institutes of Health, \$150,000

Raffel, Thomas; Exploring Swimmer's Itch Drivers with a State-Wide Snail Survey and Mesocosm Experiments; Michigan Swimmer's Itch Partnership, \$29,558

Song, Mi Hye; Centrosome Regulation and Its Link to the Cell Cycle; National Institutes of Health, \$442,500

Villa-Diaz, Luis; Use of Simulated Microgravity to Investigate Stem Cell Properties; Michigan Space Grant Consortium, University of Michigan, \$5,000

Villa-Diaz, Luis; Low-Cost Methods for Simulated Microgravity and Characterization of Integrin-Alpha6 in Space; Michigan Space Grant Consortium, University of Michigan, \$3,000

Westrick, Randal; AHA Summer Undergraduate Fellowship Program; American Heart Association, \$60,000

Westrick, Randal; Characterization of an Isoform Specific Anticoagulant Function of TFPI-alpha; National Institutes of Health, \$30,816

Chemistry

Avery, Adam; Drug Discovery for Spinocerebellar Ataxia, Using Novel Fluorescence Technology Targeting Beta-III-Spectrin; National Institutes of Health, \$294,985

Dembinski, Roman; MRI: Acquisition of an EPR X-Band Spectrometer; National Science Foundation, \$289,760

Martic, Sanela; Amyloid Disease of the Heart: Mechanism and Treatment; American Heart Association, \$161,942

Szlag, David; Detection of Microcystins with Aptamer Based Biolayer Interferometry; Michigan Space Grant Consortium, University of Michigan, \$5,000

Wu, Colin; Evaluation of Cardiovascular Risk of BRCA1 Mutation Carriers; American Heart Association, \$154,000

Wu, Colin; Evaluating the Delayed Effects of Microgravity on Human Health; Michigan Space Grant Consortium, University of Michigan, \$5,000

Yang, Ziming; Investigating Mineral-Promoted Amino Acid Interconversions in Hydrothermal Fluids; Michigan Space Grant Consortium, University of Michigan, \$5,000

Zeng, Xiangqun; EAGER SitS: Multimodal Gas Sensor for In Situ Methane and Carbon Dioxide Detection in Arctic Soils; National Science Foundation, \$294,536

Mathematics and Statistics

Tran, Nghia; Second-Order Variational Analysis in Structured Optimization Problems and Algorithms; National Science Foundation, \$108,215

Philosophy

Navin, Mark; Vaccine Mandates and Co-Opted Governance in Southeast Michigan; Southeast Michigan Health Association, \$8,297

Physics

Cholis, Ilias; Modeling Solar Modulation of Cosmic Rays Analytically with Data from 2006 to 2016; Michigan Space Grant Consortium, University of Michigan, \$5,000

Srinivasan, Gopalan; Hexagonal Ferrite-Ferroelectric Core-Shell Nanofibers, Field-Assisted Assembly of Superstructures; National Science Foundation, \$448,736

Srinivasan, Gopalan; Non-Linear Magneto-Electric Interactions in Thin Films of Hexagonal Ferrites and Voltage-Tunable High Frequency Ferrite Devices; National Science Foundation, \$400,000

Zhang, Wei; Microwave Excitation of Nitrogen-Vacancy Centers in Diamond; Department of Energy / Argonne National Laboratory, \$39,999

Zhang, Wei; THz Spintronics with Antiferromagnetic Heterostructures; United States Air Force, \$66,000

Zhang, Wei; Investigating Modulated Laser Pumping and Heating for Spin-Based Energy Harvesting; Michigan Space Grant Consortium, University of Michigan, \$3,000

Zhang, Wei; Investigating Layer Stacking Effect and the Lateral and Vertical Temperature Profiles; Michigan Space Grant Consortium, University of Michigan, \$3,000

Psychology

Escobar, Martha; An HBCU Alliance - A Model to Promote URM Junior Faculty Advancement in the STEM Professoriate; National Science Foundation, \$458,797

Escobar, Martha; Collaborative Research: Strategies: Black Girls from Alabama for Computing (LeGACY); National Science Foundation, \$192,231

Eye Research Institute

Zhang, Dao-Qi; Functional Organization of the Dopaminergic Network; National Institutes of Health, \$37,500

School of Engineering and Computer Science

Computer Science and Engineering

Chen, Jingshu; A User-friendly Fault Injection Framework for Reliable Autonomous System Development; Michigan Space Grant, \$3,000

Fu, Huirong; REU Site: Undergraduate Computer Research (UnCore) in Cyber Security; National Science Foundation, \$360,000

Fu, Huirong; REU Site: Undergraduate Computer Research (UnCore) in Cyber Security; National Science Foundation, \$20,000

Malik, Khalid Mahmood; Forensic Examiner: Testbed for Benchmarking Digital Audio Forensic Algorithms; National Science Foundation, \$199,909

Malik, Khalid Mahmood; Forensic Examiner: Testbed for Benchmarking Digital Audio Forensic Algorithms; National Science Foundation, \$8,000

Malik, Khalid Mahmood; NeuroAssist: An Intelligent Decision Support System for Prediction of Brain Aneurysm Rupture; Brain Aneurysm Foundation, \$40,000

Rrushi, Julian; Defense OS-Resident Cyber Deception Operations Rooted in MILDEC; United States Air Force, \$179,645

Electrical and Computer Engineering

Cheok, Ka C.; Robotics Technology Kernel (RTK) for Logistics Automation Autonomous Driving; Great Lakes Systems and Technology LLC/National Advanced Mobility Consortium, \$75,000

Li, Jia; Dynamic Data Driven Multistatic EO/RF Sensor Fusion; Air Force Office of Scientific Research, \$207,504

Louie, Wing-Yue; Driver State Monitoring System; Dura Automotive, LLC, \$64,171

Louie, Wing-Yue; Evaluating a Virtual Reality-based Interface for Teaching Humanoids; Michigan Space Grant Consortium, \$5,000

Qu, Hongwei; Material Characterization for Electroplated Contacts; Molex, LLC, \$56,348

Rawashdeh, Osamah; Dura Automotive Driver State Monitoring; Dura Automotive, \$68,141

Rawashdeh, Osamah; Propulsion System Optimization for a Gas-Electric Hybrid Drone; Michigan Space Grant Consortium, \$3,000

Tang, Jing; Toward Next Generation Positron Emission Tomography/Magnetic Resonance Imaging; National Science Foundation, \$26,178

Zohdy, Mohamed; Support for Artificial Intelligence Algorithm for Air Quality Control; Electric Power Research Institute, Inc., \$25,000

Industrial and Systems Engineering

Nezamoddini, Nasim; Designing Self-Adaptive Algorithms for Cognitive Spacecraft; Michigan Space Grant Consortium, \$5,000

Pandey, Vijitashwa; Alignment Repair Strategies to Reduce Warranty Costs using a Probabilistic Decision Model; Fiat Chrysler Automobiles, \$50,000

Pandey, Vijitashwa; A Decision-Based Mobility Model for Semi and Fully Autonomous Vehicles; United States Army TARDEC, \$79,550

Pandey, Vijitashwa; A Decision-Based Mobility Model for Semi and Fully Autonomous Vehicles; United States Army TARDEC, \$67,462

Mechanical Engineering

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

Golovashchenko, Sergey; CLIC Form; Fiat Chrysler Automobiles, \$110,264

Golovashchenko, Sergey; CLIC Form; Fiat Chrysler Automobiles, \$110,264

Guessous, Laila; Numerical Analysis and Evaluation of Common Thermal Dissipation Strategies for Electronics Cooling; Continental Automotive Systems, Inc., \$41,775

Guessous, Laila; REU Site: Automotive and Energy Research and Industrial Mentorship (AERIM) Program at Oakland University; National Science Foundation, \$370,304

Shall, James; Adhesion Mechanics of Van der Waals Interfaces: Fundamental Nanoscale Experiments and Simulations; Air Force Office of Scientific Research, \$108,147

Nassar, Sayed/Yang, Lian; Planning IUCRC Oakland University: Center for Digital Composite Joining and Repair; National Science Foundation, \$15,000

Zhao, Peng; MISR: miniature Ignition Screening Rapid Compression Machine for Kinetic Measurements of Novel Fuel; United States Department of Energy, \$194,622

School of Health Sciences

Human Movement Science

Arena, Sara; Direct Community Referrals to the HOP-UP-PT; Michigan Health Endowment Fund, \$201,558

Goble, Daniel; Normative Data for the Balance Tracking System; Balance Tracking Systems, \$20,000

Interdisciplinary Health Sciences

Lucarelli, Jennifer; PAL Needs Assessment and Evaluation; Sheriff PAL/United Way, \$15,000

Lucarelli, Jennifer; PAL Prescription for Healthy Families; Michigan Health Endowment Fund, \$100,000

Papadimitriou, Christina; No One Listens to Me - Understanding Recovery When Patients Cannot Speak for Themselves; George Washington University, \$25,119

Rohn, Edward; Phenomenology of Chronic Pain after Spinal Cord Injury: Experience, Adaptation and Qualify of Life; United States Army, \$49,281

Rohn, Edward; Phenomenology of Chronic Pain after Spinal Cord Injury: Experience, Adaptation and Qualify of Life; United States Army, \$30,983

Stevenson, Laurel; Judson Center Evaluation; Judson Center, Inc., \$51,526

Stevenson, Laurel; Wellness Evaluation Project – NPC; Oakland County Health Department, \$7,000

Public and Environmental Wellness

Dallo, Florence; Stress (Early Childhood and Politically-Related) and Health; Harvard University, \$64,609

Dallo, Florence; Michigan Center for Contextual Factors in Alzheimer's Disease; National Institutes of Health, \$30,400

Olawoyin, Richard; State of Michigan Independent Risk Analysis for the Straits Pipeline; State of Michigan, \$4,053

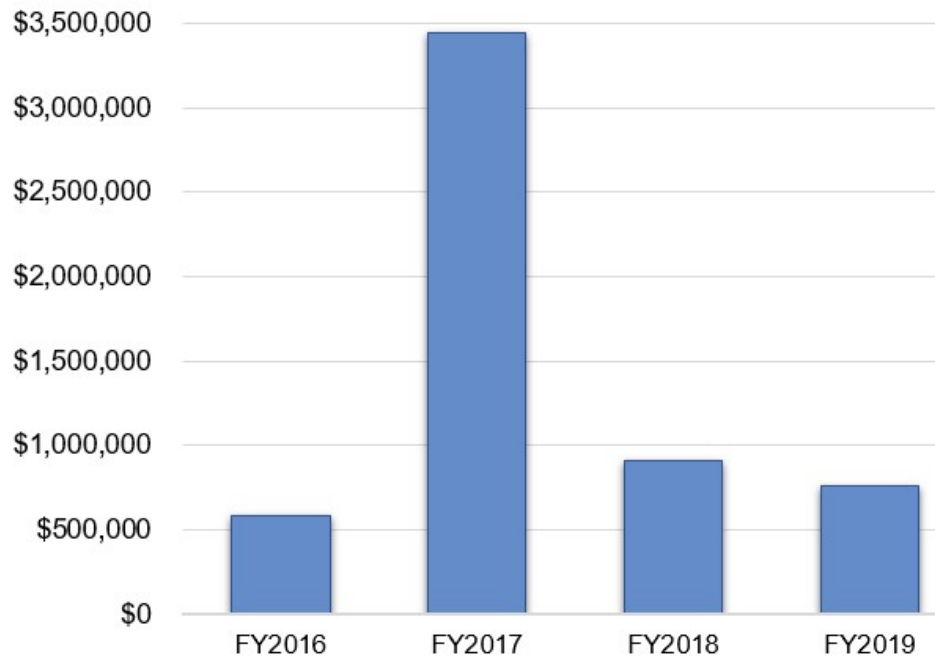
School of Medicine

Baker, Erin; Retrospective Review of Infected Shoulder Arthroplasty Cases to Assess Infections; Blue Cross Blue Shield of Michigan Foundation, \$3,000

Wasserman, Jason; Street Medicine Pontiac: A Collaboration and Extension of the Gary Burnstein Community Health Clinic and the Oakland University William Beaumont Student Run Free Clinic; Blue Cross Blue Shield of Michigan Foundation, \$3,000

Instruction Awards

Instruction Awards
Fiscal Years 2016-2019



Academic Unit Comparison

Academic Unit	FY2016	FY2017	FY2018	FY2019
College of Arts and Sciences	0	15,000	0	0
School of Business Administration	0	0	0	6,420
School of Engineering and Computer Science	0	0	110,264	207,785
School of Education and Human Services	8,000	0	65,090	24,243
School of Medicine	380,000	10,000	0	0
School of Nursing	58,346	0	26,992	236,354
Other	139,266	3,413,237	708,070	287,230
Total	\$585,612	\$3,438,237	\$910,416	\$762,032

FY 2019 Instruction Awards by Source

Source	Amount	Amount Percentage	Number of Awards	Number Percentage
Federal	457,218	60.0%	10	55.5%
State/Local	296,319	38.9%	6	33.3%
Corporate	6,420	0.8%	1	5.6%
Public/Nonprofit	2,075	0.3%	1	5.6%
Total	\$762,032	100.0%	18	100.0%

Instruction Awards by Department

Fiscal Years 2016 – 2019

<i>College of Arts and Sciences</i>	FY2016	FY2017	FY2018	FY2019
<i>Writing and Rhetoric</i>	0	15,000	0	0
<i>CAS Total</i>	\$0	\$15,000	\$0	\$0

<i>School of Business Administration</i>	FY2016	FY2017	FY2018	FY2019
<i>Writing and Rhetoric</i>	0	0	0	6,420
<i>CAS Total</i>	\$0	\$0	\$0	\$6,420

<i>School of Engineering and Computer Science</i>	FY2016	FY2017	FY2018	FY2019
<i>Computer Science and Engineering</i>	8,000	0	0	97,050
<i>Mechanical Engineering</i>	0	0	110,264	110,735
<i>SECS Total</i>	\$8,000	\$0	\$110,264	\$207,785

<i>School of Education and Human Services</i>	FY2016	FY2017	FY2018	FY2019
<i>Human Development and Child Studies</i>	380,000	0	65,090	22,168
<i>Reading and Language Arts</i>	0	0	0	2,075
<i>SEHS Total</i>	\$380,000	\$0	\$65,090	\$24,243

<i>School of Nursing</i>	FY2016	FY2017	FY2018	FY2019
<i>SON Total</i>	\$58,346	\$10,000	\$26,992	\$236,354

<i>Other</i>	FY2016	FY2017	FY2018	FY2019
<i>Center for Multicultural Initiatives</i>	91,364	91,364	645,390	\$100,483
<i>Office of the Senior Associate Provost</i>	40,000	0	0	0
<i>Police</i>	7,902	0	0	0
<i>Pre-College Programs</i>	0	196,023	62,680	72,812
<i>Student Affairs</i>	0	50,000	0	0
<i>Upward Bound</i>	0	3,075,850	0	113,935
<i>CAS Total</i>	\$139,266	\$3,413,237	\$708,070	\$287,230

<i>Oakland University Total</i>	FY2016	FY2017	FY2018	FY2019
<i>Grand Total Instruction</i>	\$585,612	\$3,438,237	\$910,416	\$762,032
<i>Grand Total Funding</i>	\$10,878,037	\$11,944,872	\$9,598,612	9,121,729

FY 2019 Instruction Awards by Unit, Department and Principal Investigator

School of Business Administration

Management and Marketing

Thrasher, Gregory; Competency Measurement and Implementation: Stage 2; Hitachi America, Ltd., \$6,420

School of Engineering and Computer Science

Computer Science and Engineering

Fu, Huirong; GenCyber: Cybersecurity Camp for K-12 Teachers; National Security Agency \$97,050

Mechanical Engineering

Kobus, Krzysztof; United States Army Research and Engineering Apprenticeship; United States Army \$2,000

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

Kobus, Krzysztof; Earth System Science STEM Camps, Outreach and Teacher Training; National Aeronautics and Space Administration, \$20,000

School of Education and Human Services

Human Development and Child Studies

Wakabayashi, Tomoko; Early Literacy Essentials for Pre-Kindergarten Training of Trainers Evaluation 2018-19; Michigan Department of Education, \$22,168

Reading and Language Arts

Christ, Tanya; Culturally Relevant Texts for English Learners with Refugee Backgrounds; American Educational Research Association, \$2,075

School of Nursing

Gajewski, Ellen; Grant 2019 NPFG Oakland University; State of Michigan, \$12,121

Harris, Margaret; Nurse Faculty Loan Program Oakland University; Health Resources and Services Administration, \$111,111

Hays, Deana; Midwest Integration of the National HIV Curriculum; Health Resources and Services Administration, \$10,000

Hranchook, Anne; Nurse Anesthesia Traineeship Grant; Health Resources and Services Administration, \$73,517

Hranchook, Anne; Nurse Anesthetist Training Program; Health Resources and Services Administration, \$29,605

Other

Center for Multicultural Initiatives

Brown-El, Omar; *Collectively Oakland Retains Everyone (CORE)*; State of Michigan, \$100,483

Pre-College Programs

McCloud, Reginald; College Day; State of Michigan, \$55,212

McCloud, Reginald; GEAR UP. Michigan Department of Labor and Economic Growth, \$17,600

Upward Bound

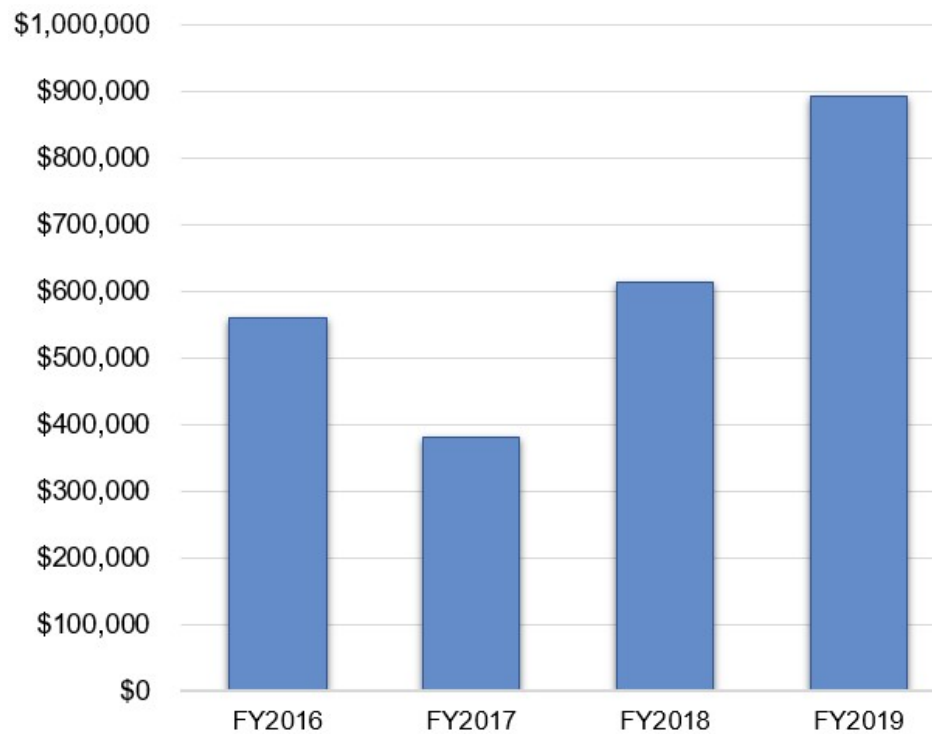
Graham, Geraldine; Project Upward Bound College Prep Academy; U.S. Department of Education, \$71,758

Graham, Geraldine; Project Upward Bound College Prep Academy; U.S. Department of Education, \$26,798

Graham, Geraldine; Project Upward Bound College Prep Academy; U.S. Department of Education, \$15,379

Other Sponsored Activities Awards

Other Sponsored Activities Awards
Fiscal Years 2016-2019



Academic Unit Comparison

Academic Unit	FY2016	FY2017	FY2018	FY2019
College of Arts and Sciences	12,000	50,760	133,373	120,088
School of Education and Human Services	0	0	32,500	118,847
School of Health Sciences	8,500	0	0	0
School of Medicine	0	9,984	0	0
Other	538,940	319,025	447,931	655,482
Total	\$559,440	\$379,769	\$613,804	\$894,417

FY 2019 Other Sponsored Activities Awards by Source

Source	Amount	Amount Percentage	Number of Awards	Number Percentage
Federal	10,000	8.1%	1	5.6%
State/Local	772,829	86.4%	14	77.8%
Public/Nonprofit	111,588	12.5%	3	16.6%
Total	\$894,417	100.0%	18	100.0%

Other Sponsored Activities by Department

Fiscal Years 2016 – 2019

<i>College of Arts and Sciences</i>	FY2016	FY2017	FY2018	FY2019
<i>Art and Art History</i>	12,000	18,000	0	10,000
<i>Psychology</i>	0	32,760	0	0
<i>Sociology and Anthropology</i>	0	0	133,373	110,088
<i>CAS Total</i>	\$12,000	\$50,760	\$133,373	\$120,088

<i>School of Education and Human Services</i>	FY2016	FY2017	FY2018	FY2019
<i>Human Development and Child Studies</i>	0	0	32,500	117,347
<i>Organization Leadership</i>	0	0	0	1,500
<i>SEHS Total</i>	\$0	\$0	\$32,500	\$118,847

<i>School of Health Sciences</i>	FY2016	FY2017	FY2018	FY2019
<i>SHS Total</i>	\$8,500	\$0	\$0	\$0

<i>School of Medicine</i>	FY2016	FY2017	FY2018	FY2019
<i>SOM Total</i>	\$0	\$9,984	\$0	\$0

<i>Other</i>	FY2016	FY2017	FY2018	FY2019
<i>Campus Recreation</i>	0	20,000	0	0
<i>Center for Student Activities</i>	10,550	0	0	0
<i>Diversity, Equity and Inclusion</i>	0	0	0	16,355
<i>Graduate Study and Lifelong Learning</i>	0	0	0	104,772
<i>Library</i>	0	0	6,410	0
<i>Office of the Senior Associate Provost</i>	0	100,000	0	0
<i>Macomb-OU Incubator</i>	281,590	55,000	145,946	197,995
<i>OU Incubator</i>	221,800	119,025	45,950	34,000
<i>Pre-College Programs</i>	0	0	0	140,000
<i>Research Office</i>	25,000	25,000	249,625	162,360
<i>Other Total</i>	\$538,940	\$319,025	\$447,931	\$655,482

<i>Oakland University Total</i>	FY2016	FY2017	FY2018	FY2019
<i>Grand Total Other Sponsored Activities</i>	\$559,440	\$379,769	\$613,804	\$894,417
<i>Grand Total Funding</i>	\$10,878,037	\$11,944,872	\$9,598,612	\$9,121,729

Other Sponsored Activities Awards by Unit, Department and Principal Investigator

College of Arts and Sciences

Art and Art History

Goody, Stephen; FY2019 Project Support; Michigan Council for Arts and Cultural Affairs, \$10,000

Sociology and Anthropology

Reger, Joanne; Editorship of *Gender and Society*; Sociologists for Women in Society, \$66,450

Reger, Joanne; Editorship of *Gender and Society*; Sociologists for Women in Society, \$43,638

School of Education and Human Services

Human Development and Child Studies

Korneder, Jessica; MISD School-Based ABA Services; Macomb Intermediate School District, \$67,347

Korneder, Jessica; University Autism Program; Michigan Department of Health and Human Services, \$50,000

Organizational Leadership

Jourian, Trent; Activating Trans Masculine College Students' Reflections on Campus Experiences, Masculinity, and Community-Building through Long-Term Online Focus Groups; National Student Affairs Administrators in Higher Education, \$1,500

Other

Diversity, Equity and Inclusion

Martinez, Chad; Raising Awareness of Sexual Assault and Campus Resources; Michigan State Police \$16,355

Graduate Study and Lifelong Learning

Rammel, Claire; King-Chavez-Parks Program for Future Faculty Fellowships; State of Michigan, \$104,772

Macomb-OU Incubator

Herriman, Lawrence; Business Accelerator Fund-Client Engagement, Security Vitals; Grand Valley State University/MEDC, \$10,000

Herriman, Lawrence; Business Accelerator Fund-Client Engagement-Union and Company; Grand Valley State University/MEDC, \$10,000

Herriman, Lawrence; Accelerator Development Funds-Discretionary; Grand Valley State University/MEDC, \$30,000

Herriman, Lawrence; MSF 2015 Business Incubators; Michigan Economic Development Corporation, \$147,995

OU Incubator

Kent, Stephen; Business Accelerator Fund-Client Engagement, Innovative Billboards, LLC; Grand Valley State University/MEDC, \$4,000

Kent, Stephen; Accelerator Development Funds-Discretionary; Grand Valley State University/MEDC, \$30,000

Pre-College Programs

McCloud, Reginald; College Day; State of Michigan, \$140,000

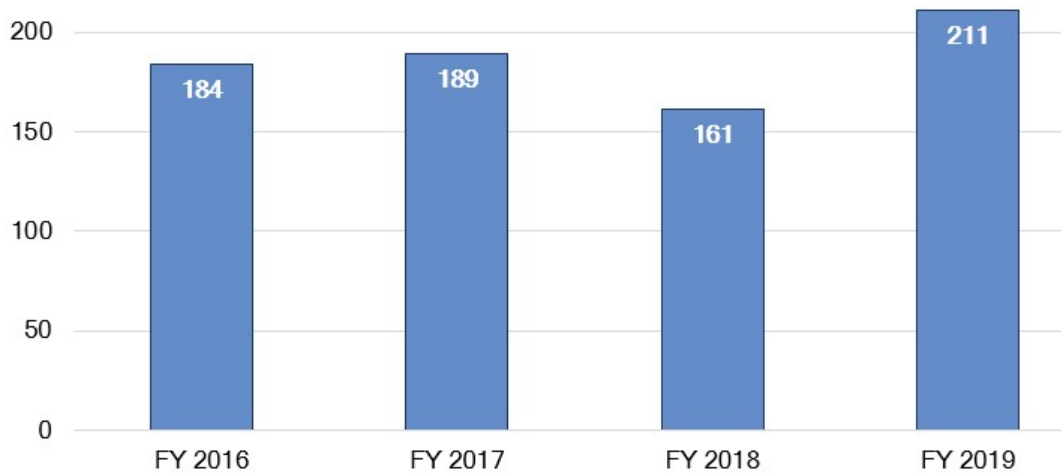
Research Office

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

Stone, David; Business Incubator Programs; Michigan Economic Development Corporation, \$74,860

Stone, David; T3N 3.0; University of Michigan/MEDC, \$37,500

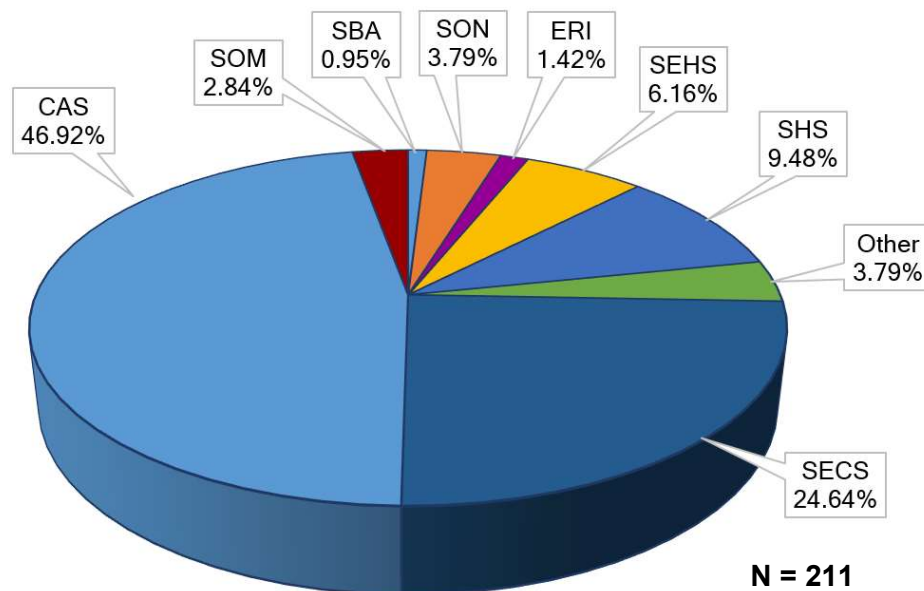
Number of Proposals Submitted, FY 2016-2019



Number of Proposals Submitted by Academic Unit, FY 2016-2019

Academic Unit	FY2016	FY2017	FY2018	FY2019	Grand Total
CAS	86	98	88	99	371
ERI	5	0	1	3	9
SBA	3	2	0	2	7
SECS	50	45	45	52	192
SEHS	6	5	9	13	33
SHS	11	14	8	20	53
SOM	4	6	3	6	19
SON	4	5	3	8	20
Other	15	14	4	8	41
Grand Total	184	189	161	211	745

FY 2019 Proposals Submitted by Academic Unit



FY 2019 Proposals Submitted by Academic Unit, continued

College of Arts and Sciences	FY2018	FY2019
<i>Art and Art History</i>	1	2
<i>Biological Sciences</i>	32	28
<i>Chemistry</i>	28	38
<i>Mathematics and Statistics</i>	3	2
<i>Philosophy</i>	0	2
<i>Physics</i>	19	24
<i>Political Science (Pre-Law)</i>	1	1
<i>Psychology</i>	2	2
<i>Sociology and Anthropology</i>	2	0
CAS Total	88	99

Eye Research Institute	FY2018	FY2019
ERI Total	1	3

School of Business Administration	FY2018	FY2019
<i>Management and Marketing</i>	0	2
SBA Total	0	2

School of Engineering and Computer Science	FY2018	FY2019
<i>Computer Science and Engineering</i>	11	22
<i>Electrical and Computer Engineering</i>	9	14
<i>Industrial and Systems Engineering</i>	6	6
<i>Mechanical Engineering</i>	19	10
SECS Total	45	52

School of Education and Human Services	FY2018	FY2019
<i>Human Development and Child Studies</i>	4	4
<i>Reading and Language Arts</i>	2	3
<i>Teacher Development and Educational Studies</i>	2	2
<i>Organizational Leadership</i>	1	4
SBA Total	9	13

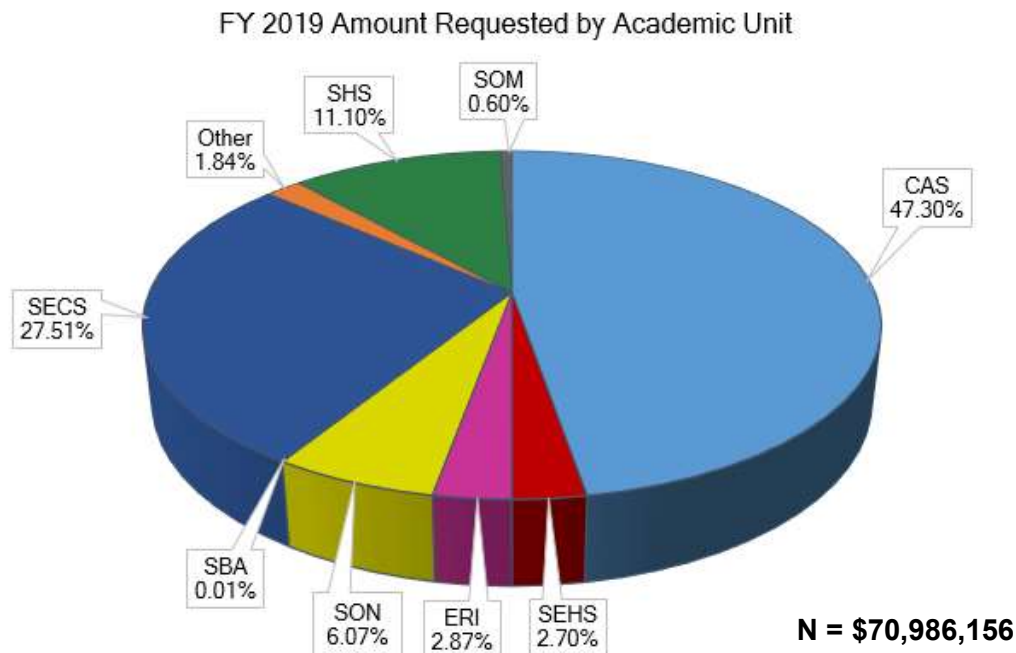
School of Health Science	FY2018	FY2019
<i>Interdisciplinary Health Science</i>	7	13
<i>Human Movement Science</i>	1	4
<i>Public and Environmental Wellness</i>	0	3
SHS Total	8	20

School of Medicine	FY2018	FY2019
SOM Total	3	6

School of Nursing	FY2018	FY2019
SON Total	3	8

Other	FY2018	FY2019
<i>Academic Affairs</i>	0	1
<i>Center for Multicultural Initiatives</i>	1	1
<i>Diversity, Equity and Inclusion</i>	0	1
<i>Library</i>	0	1
<i>Meadow Brook Hall</i>	1	0
<i>Plant Engineering</i>	0	1
<i>Pre-College Programs</i>	1	2
<i>Research Office</i>	1	1
Other Total	4	8

Percentage and Amounts Requested by Academic Unit



Amount Requested by Academic Unit, FY 2016-2019

Academic Unit	FY2016	FY2017	FY2018	FY2019	Grand Total
CAS	27,615,238	46,189,248	32,526,732	33,575,125	139,906,343
ERI	4,196,703	0	1,875,000	2,034,157	8,105,860
SBA	337,614	566,257	0	8,962	912,833
SECS	9,061,603	8,088,067	8,035,043	19,530,994	44,715,707
SEHS	7,100,114	2,379,048	2,991,058	1,917,226	14,387,446
SHS	872,261	1,043,560	739,423	7,881,792	10,537,036
SOM	483,014	116,632	10,250	424,193	1,034,089
SON	1,966,846	1,259,052	1,335,108	4,309,136	8,870,142
Other	1,415,197	4,984,757	982,570	1,304,571	8,687,095
Grand Total	\$53,048,590	\$64,626,621	\$48,495,184	\$70,986,156	\$237,156,551

Proposal Funding Requested by Academic Unit

<i>College of Arts and Sciences</i>	FY2018	FY2019
<i>Art and Art History</i>	20,000	25,000
<i>Biological Sciences</i>	14,278,109	17,915,867
<i>Chemistry</i>	12,339,927	9,112,615
<i>Mathematics and Statistics</i>	266,659	319,122
<i>Philosophy</i>	0	338,375
<i>Physics</i>	5,176,550	5,136,956
<i>Political Science</i>	22,717	17,999
<i>Psychology</i>	389,779	709,191
<i>Sociology and Anthropology</i>	32,991	0
CAS Total	\$32,526,732	\$33,575,125

Proposal Funding Requested by Academic Unit, continued

<i>Eye Research Institute</i>	FY2018	FY2019
<i>ERI Total</i>	\$1,875,000	\$2,034,157

<i>School of Business Administration</i>	FY2018	FY2019
<i>Management and Marketing</i>	0	8,962
<i>SBA Total</i>	\$0	\$8,962

<i>School of Engineering & Computer Science</i>	FY2018	FY2019
<i>Computer Science and Engineering</i>	2,118,370	9,876,590
<i>Electrical and Computer Engineering</i>	1,576,381	3,672,108
<i>Industrial and Systems Engineering</i>	1,111,279	1,830,501
<i>Mechanical Engineering</i>	3,229,013	4,151,795
<i>SECS Total</i>	\$8,035,043	\$19,530,994

<i>School of Education and Human Services</i>	FY2018	FY2019
<i>Human Development and Child Studies</i>	1,604,563	1,539,514
<i>Organizational Leadership</i>	264,000	67,630
<i>Teacher Development and Educational Studies</i>	121,905	94,926
<i>Reading and Language Arts</i>	1,000,590	215,156
<i>SEHS Total</i>	\$2,991,058	\$1,917,226

<i>School of Health Sciences</i>	FY2018	FY2019
<i>Human Movement Science</i>	0	408,986
<i>Interdisciplinary Health Sciences</i>	739,423	6,309,273
<i>Public and Environmental Wellness</i>	0	1,163,533
<i>SHS Total</i>	\$739,423	\$7,881,792

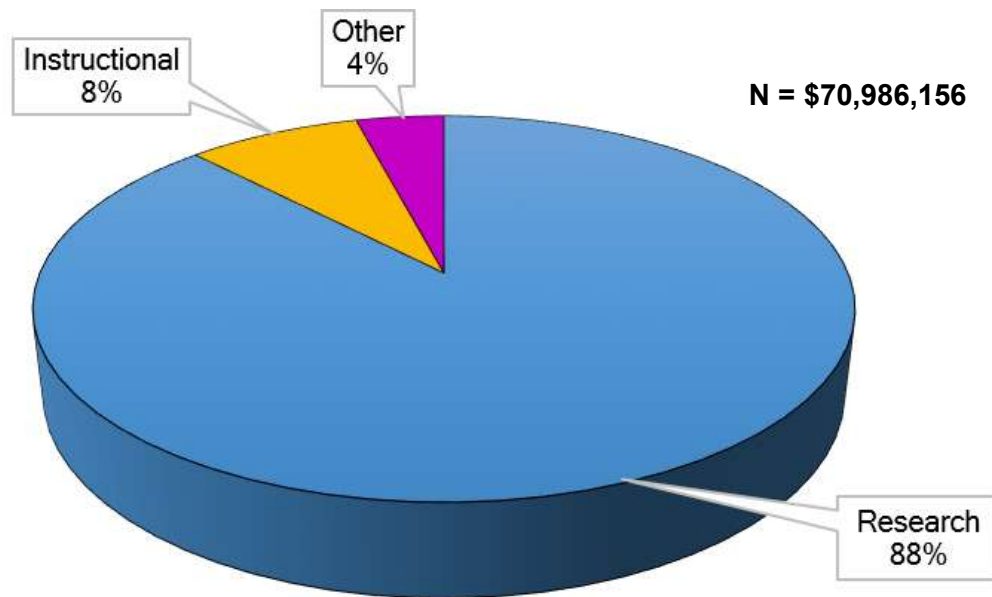
<i>School of Medicine</i>	FY2018	FY2019
<i>SOM Total</i>	\$10,250	\$424,193

<i>School of Nursing</i>	FY2018	FY2019
<i>SON Total</i>	\$1,335,108	\$4,309,136

<i>Other</i>	FY2018	FY2019
<i>Academic Affairs</i>	0	32,612
<i>Center for Multicultural Initiatives</i>	645,390	100,483
<i>Diversity, Equity and Inclusion</i>	0	31,655
<i>Facilities Management</i>	0	730,125
<i>Library</i>	0	9,943
<i>Meadow Brook Hall</i>	262,000	0
<i>Pre-College Programs</i>	62,680	305,636
<i>Research Office</i>	12,500	94,117
<i>Other Total</i>	\$982,570	\$1,304,571

FY 2018 Proposal Funding Requested by Purpose

FY2019 • Amount Requested by Purpose



<i>College of Arts and Sciences</i>	Research	Instructional	Other Sponsored Activities
<i>Art and Art History</i>	0	0	25,000
<i>Biological Sciences</i>	17,915,867	0	0
<i>Chemistry</i>	9,112,615	0	0
<i>Mathematics and Statistics</i>	319,122	0	0
<i>Philosophy</i>	338,375	0	0
<i>Physics</i>	5,136,956	0	0
<i>Political Science</i>	0	0	17,999
<i>Psychology</i>	709,191	0	0
CAS Total	\$33,532,126	\$0	\$42,999

<i>Eye Research Institute</i>	Research	Instructional	Other Sponsored Activities
ERI Total	\$2,034,157	\$0	\$0

<i>School of Business Administration</i>	Research	Instructional	Other Sponsored Activities
<i>Management and Marketing</i>	2,500	6,462	0
SEHS Total	\$2,500	\$6,462	\$0

FY 2019 Proposal Funding Requested by Purpose, continued

<i>School of Engineering and Computer Science</i>	Research	Instructional	Other Sponsored Activities
<i>Computer Science and Engineering</i>	9,228,902	647,688	0
<i>Electrical and Computer Engineering</i>	3,240,696	0	431,412
<i>Industrial and Systems Engineering</i>	1,830,501	0	0
<i>Mechanical Engineering</i>	3,162,272	989,523	0
<i>SECS Total</i>	\$17,462,371	\$1,637,211	\$431,412

<i>School of Education and Human Services</i>	Research	Instructional	Other Sponsored Activities
<i>Human Development and Child Studies</i>	1,422,167	0	117,347
<i>Organizational Leadership</i>	67,630	0	0
<i>Reading and Language Arts</i>	215,156	0	0
<i>Teacher Development and Educational Studies</i>	94,926	0	0
<i>SEHS Total</i>	\$1,799,879	\$0	\$117,347

<i>School of Health Sciences</i>	Research	Instructional	Other Sponsored Activities
<i>Human Movement Science</i>	388,985	0	20,001
<i>Interdisciplinary Health Sciences</i>	5,266,042	0	1,043,231
<i>Public and Environmental Wellness</i>	1,163,533	0	0
<i>SEHS Total</i>	\$6,818,560	\$0	\$1,063,232

<i>School of Medicine</i>	Research	Instructional	Other Sponsored Activities
<i>SOM Total</i>	\$424,193	\$0	\$0

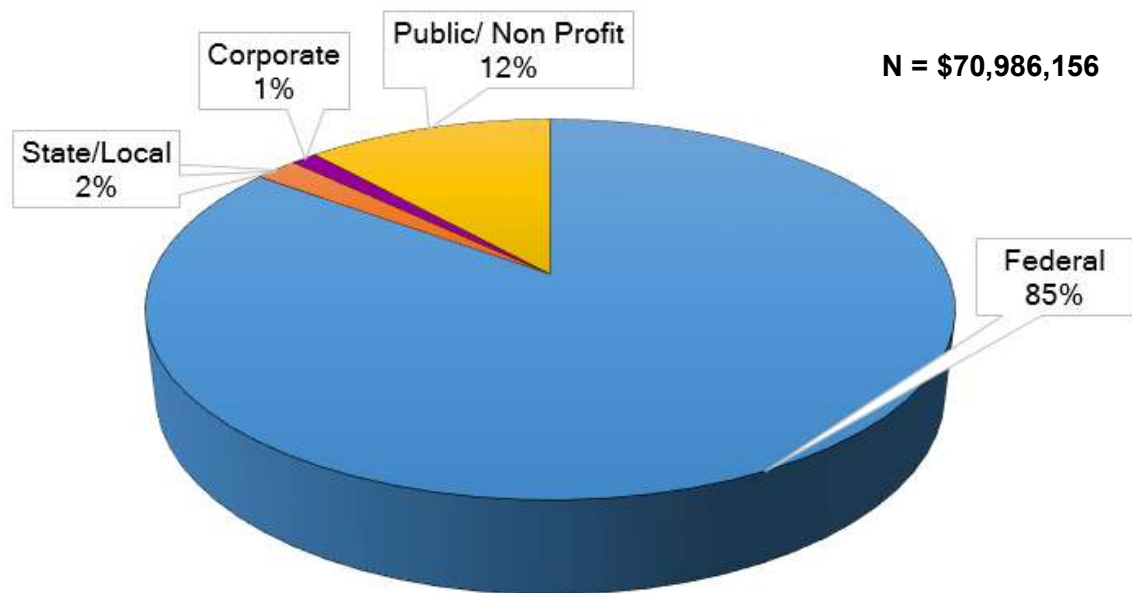
<i>School of Nursing</i>	Research	Instructional	Other Sponsored Activities
<i>SON Total</i>	\$161,897	\$4,135,118	\$12,121

<i>Other</i>	Research	Instructional	Other Sponsored Activities
<i>Academic Affairs</i>	32,612	0	0
<i>Center for Multicultural Initiatives</i>	0	0	100,483
<i>Diversity, Equity and Inclusion</i>	0	0	31,655
<i>Facilities Management</i>	0	0	730,125
<i>Library</i>	9,943	0	0
<i>Pre-College Programs</i>	0	0	305,636
<i>Research Office</i>	0	0	94,117
<i>Other Total</i>	\$42,555	\$0	\$1,262,016

<i>Oakland University Total</i>	Research	Instructional	Other Sponsored Activities
<i>Grand Total</i>	\$62,278,238	\$5,778,791	\$2,929,127

FY 2019 Proposal Funding Requested by Source

FY2019 • Amount Requested by Source



<i>College of Arts & Sciences</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Art and Art History</i>	25,000	0	0	0
<i>Biological Sciences</i>	16,289,209	0	0	1,626,658
<i>Chemistry</i>	6,734,340	11,501	0	2,366,774
<i>Mathematics and Statistics</i>	277,122	0	0	42,000
<i>Philosophy</i>	330,078	0	0	8,297
<i>Physics</i>	4,370,688	0	0	766,268
<i>Political Science</i>	0	17,999	0	0
<i>Psychology</i>	709,191	0	0	0
CAS Total	\$28,735,628	\$29,500	\$0	\$4,809,997

<i>Eye Research Institute</i>	Federal	State/Local	Corporate	Public/ Nonprofit
ERI Total	\$2,009,997	\$0	\$0	\$24,160

<i>School of Business Administration</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Management and Marketing</i>	\$0	\$0	\$8,962	\$0
SBA Total	\$0	\$0	\$8,962	\$0

FY 2019 Proposal Funding Requested by Source, continued

<i>School of Engineering and Computer Science</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Computer Science and Engineering</i>	8,717,634	88,735	0	1,070,220
<i>Electrical and Computer Engineering</i>	2,754,850	0	663,450	253,808
<i>Industrial and Systems Engineering</i>	1,680,501	0	150,000	0
<i>Mechanical Engineering</i>	4,111,796	0	40,000	0
<i>SECS Total</i>	\$17,264,781	\$88,735	\$853,450	\$1,324,028

<i>School of Education and Human Services</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Human Development and Child Studies</i>	1,399,999	139,515	0	0
<i>Organizational Leadership</i>	14,000	0	0	53,630
<i>Reading and Language Arts</i>	202,757	0	0	12,399
<i>Teacher Development and Educ Studies</i>	0	0	0	94,926
<i>SEHS Total</i>	\$1,616,756	\$139,515	\$0	\$160,955

<i>School of Health Sciences</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Human Movement Science</i>	0	0	20,001	388,985
<i>Interdisciplinary Health Sciences</i>	4,837,341	7,000	0	1,464,932
<i>Public and Environmental Wellness</i>	1,163,533	0	0	0
<i>SHS Total</i>	\$6,000,874	\$7,000	\$20,001	\$1,853,917

<i>School of Medicine</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>SOM Total</i>	\$414,693	\$0	\$0	\$9,500

<i>School of Nursing</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>SON Total</i>	\$4,144,992	\$12,121	\$0	\$152,023

<i>Other</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Academic Affairs</i>	32,612	0	0	0
<i>Center for Multicultural Initiatives</i>	0	100,483	0	0
<i>Diversity, Equity and Inclusion</i>	0	31,655	0	0
<i>Facilities Management</i>	0	730,125	0	0
<i>Library</i>	9,943		0	0
<i>Pre-College Programs</i>	0	305,636	0	0
<i>Research Office</i>	94,117	0	0	0
<i>Other Total</i>	\$136,672	\$1,167,899	\$0	\$0

<i>Oakland University Total</i>	Federal	State/Local	Corporate	Public/ Nonprofit
<i>Grand Total</i>	\$60,324,393	\$1,444,770	\$882,413	\$8,334,580

Research, Innovation, and Engagement Town Hall - 2018 Winners

Frank Giblin Lifetime Achievement Award

Dr. Yang Xia
Department of Physics, CAS

Researcher of the Year

Dr. Randal J. Westrick
Department of Biological Sciences, CAS

Most Research Active

Dr. Zissimos P. Mourelatos
Department of Mechanical Engineering, SECS

Most Active Grant Seeker

Dr. Xiangqun Zeng
Department of Chemistry, CAS

Most Active Grant Seeker (Honorable Mention)

Dr. Colin Wu
Department of Chemistry, CAS

Outstanding Research Department

Biological Sciences, CAS

Outstanding Junior Investigator

Dr. Laurel Dolin Stevenson
Department of Interdisciplinary Health Sciences, SHS

PI Academy for Research and Engagement, Class of 2019

Sharon Berry, Philosophy, CAS
Elise Brown, Public and Environmental Wellness, SHS
Jingshu Chen, Computer Science and Engineering, SECS
Ilias Cholis, Physics, CAS
Felicia Chong, Writing and Rhetoric, CAS
Christopher Cooley, Mechanical Engineering, SECS
Erin Dwyer, History, CAS
Jickssa Gemechu, Biomedical Sciences, OUWB
Michelle Hammond, Management and Marketing, SBA
Mary Jamieson, Biological Sciences, CAS
T.J. Jourian, Organizational Leadership, SEHS
Brendan Kredell, Cinema Studies, CAS
Anyi Liu, Computer Science and Engineering, SECS
Matthew May, Sociology, CAS
Hua Ming, Computer Science and Engineering, SECS
Atiqul Mollah, Computer Science and Engineering, SECS
Kristen Munyan, Nursing, SON
Sang Hoon Rhee, Biological Sciences, CAS
Ed Rohn, Interdisciplinary Health Sciences, SHS
Kate Rougeau, Public and Environmental Wellness, SHS
Julian Rrushi, Computer Science and Engineering, SECS
Amartya Sen, Computer Science and Engineering, SECS
Missie Smith, Industrial and Systems Engineering, SECS
Ahmad Sobhani, Decision and Information Sciences, SBA
Sam Srauy, Communication and Journalism, CAS
Greg Thrasher, Management and Marketing, SBA
Christopher Wilson, Human Movement Science, SHS
Douglas Zytke, Computer Science and Engineering, SECS

Research Office

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(248) 370-2762 | oakland.edu/research