OAKLAND UNIVERSITY

RESEARCH REPORT 2024

Research Office
www.oakland.edu/research

Oakland University Research Report Fiscal Year 2024

Cover Art

This past year the Research Office made available small research grants to OU faculty that included 'International Research Experiences for Students' for fieldwork, archival research, etc.

First picture: Dr. Mark Stone, Department of Music, and students were awarded funding for research travels to West Africa. Pictured are Alex Woma (Nephew of Bernard Woma, founder of the Dagara Music Center), and William Angliss, music major in World Percussion at OU. This photo was taken at the Dagara Music Center in Medie Ghana as part of their summer 2024 International Research Experience to Ghana, West Africa.

Second picture: Dr. Thayer Jonutz, Department of Dance, traveled to Costa Rica with students Jenna Ross, Angela Lowry, Claire McCowan, Elise Spears, Megan Makulski, and Theresa O'Conner. Here they are performing at the Universidad Nacional de Costa Rica Theatre. **Third picture** they are visiting the Irazu Volcano.

Fourth picture: Dr. Elise Brown, Department of Wellness and Health Promotion, with student Laura Roberts were awarded funding for their research trip to Scotland. Dr. Brown and Laura participated in the 29th Annual Congress of the European College of Sport Science.

Contents

Preface

The Research Office is proud to present the Fiscal Year (FY) 2024 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, instruction, public service, student services, and scholarships & fellowships. Detailed data are also provided for proposals that were submitted in FY 2024.

Every year, in writing this Preface, we warn against over-interpreting direct comparisons of numbers or trends from one year to another. Due to COVID-19, fiscal years 2020 and 2021 were in no way normal years for research at OU, and those ripple effects are still visible in the numbers. Our other standing admonition is to remain mindful of the law of small numbers. Many of our departments are small and most of our funded investigators are only working on one project at a time. This tends to lead to trends in proposals and awards that resemble a sine wave as faculty who are funded tend not to write new proposals for a few years, and then suddenly a department can see a significant influx of new funding after a period of relative dormancy.

There is much to celebrate about FY 2024 in terms of research and sponsored programs. Despite some continuation of restrictions and problems caused by COVID-19, OU researchers have been very productive. Total funding for this year increased by .5% to a record $29.1M, while research funding increased by 66% to a record $22.7M. The amount requested in proposals increased 5% to $108.4M. The most significant notes this year pertain to a record level of Federal funding (17,480,034), nearly $3M in funding for the Eye Research institute, and nearly $1M in the School of Education and Human services.

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 2024, 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 2024. 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.

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 eight (8) sections. The first section, award overview, provides a summary of all NEW sponsored awards received by OU through the Research Office for the previous fiscal year. The ensuing five sections include award information separated according to the following activity types: 1) research, 2) instruction, 3) public service, 4) student services, and 5) scholarships and fellowships. The seventh section of the report details proposal submissions for the previous fiscal year. The eighth and final section of the report includes listings of the winners of the 2023 Research, Innovation, and Engagement Town Hall.

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 Activity
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, OU INC, Pre-College Programs, the Research Office, Student Affairs, and Upward Bound. This work is often, but not always, engagement work, public service, or student services.
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Amounts and Number of Awards by Purpose

Funding Amount of New Awards

Purpose of Funding	FY2021	FY2022	FY2023	FY2024	Total
Research	12,887,052	15,331,396	13,685,243	22,652,015	64,555,706
Instruction	2,502,714	6,022,981	11,779,106	5,456,651	25,761,452
Public Service	270,094	322,154	1,571,736	430,374	2,594,358
Student Services	182,495	290,945	862,057	429,327	1,764,824
Scholarships and Fellowships	267,622	3,243,593	1,048,425	129,560	4,689,200
Total	**$16,109,977**	**$25,211,069**	**$28,946,567**	**$29,097,927**	**$99,365,540**
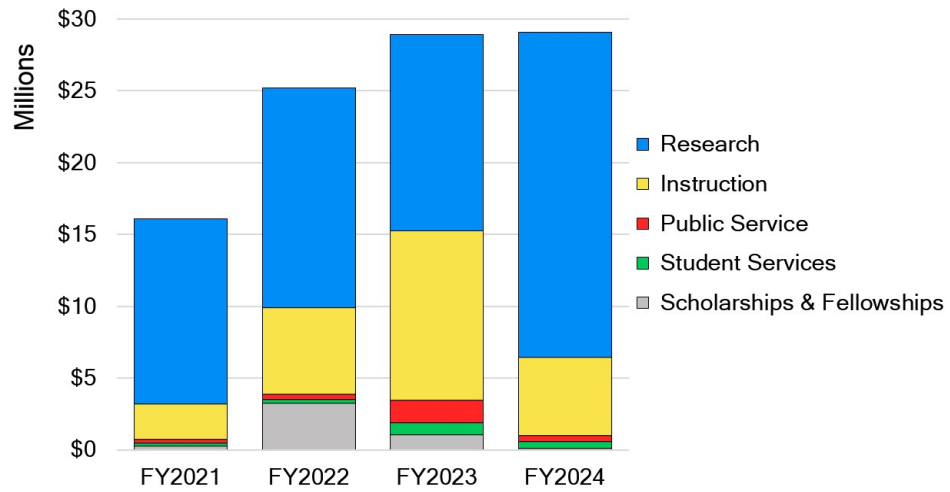
Number of Awards

Purpose of Funding	FY2021	FY2022	FY2023	FY2024	Total
Research	61	70	66	81	278
Instruction	3	8	4	8	23
Public Service	8	9	10	12	39
Student Services	3	3	9	5	20
Scholarships and Fellowships	2	3	1	4	10
Total	**77**	**93**	**90**	**110**	**370**
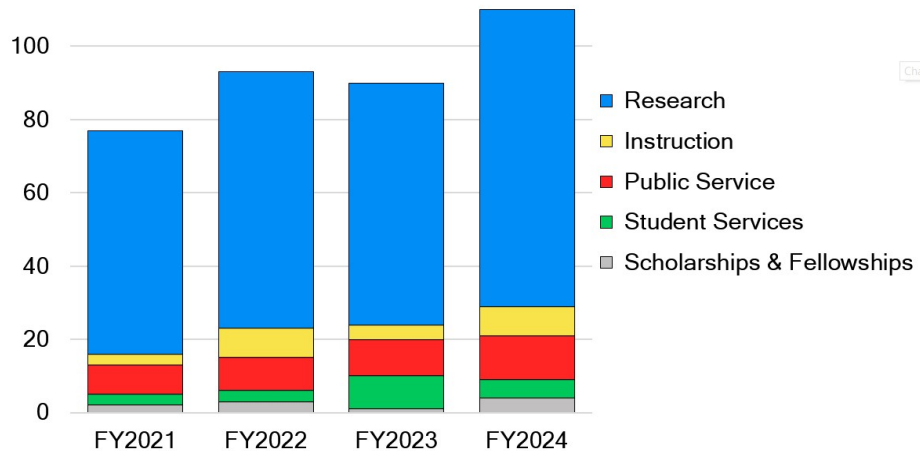
Percentages and Number of Awards by Purpose

FY2024 Funding Amount Percentages

Public Service 1.5%

Student Services 1.5%

Scholarships & Fellowships 0.4%

Instruction 18.8%

Research 77.8%
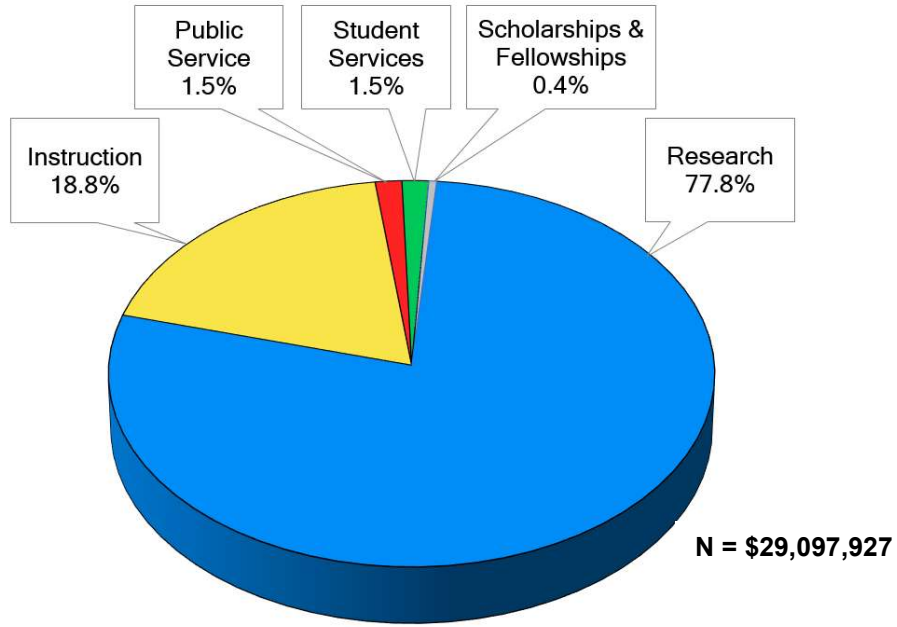
N = $29,097,927

Purpose of Funding	# of Awards	Total $
Research	81	22,652,015
Instruction	8	5,456,651
Public Service	12	430,374
Student Services	5	429,327
Scholarships and Fellowships	4	129,560
Total	**110**	**$29,097,927**

FY2024 Number of Awards Percentage

Public Service 10.9%

Student Services 4.6%

Scholarships & Fellowships 3.6%

Instruction 7.3%

Research 73.6%

N = 110
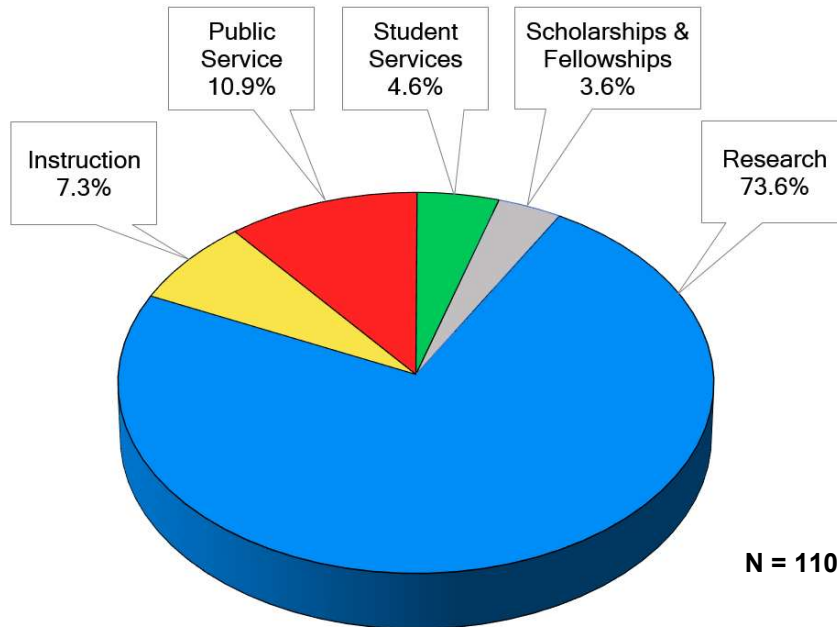
Percentages and Award Amounts by Source

FY2024 ● Funding Amount Percentages

State/Local Government 5.4%

Corporate 1.3%

Federal Government 60.1%

Public/Non-Profit 33.2%
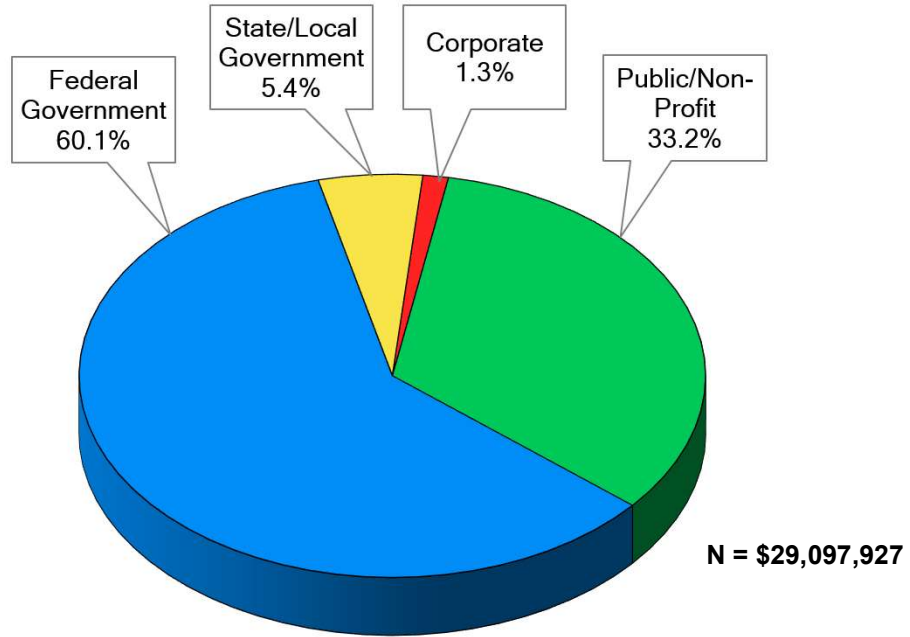
N = $29,097,927

Source of Funding	# of Awards	Total
Federal Government	57	17,480,034
State/Local Government	17	1,563,681
Corporate Sponsors	6	381,820
Public/Nonprofit Sponsors	30	9,672,392
Total	**110**	**$29,097,927**

FY2024 ● Number of Awards Percentage

State/Local Government 15.5%

Corporate 5.4%

Federal Government 51.8%

Public/Non-Profit 27.3%

N = 110
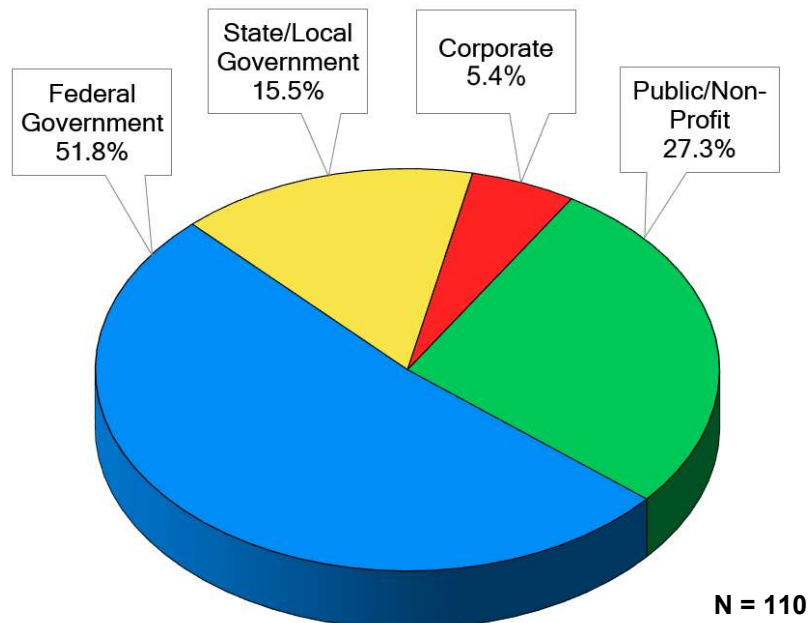
Percentages and Award Amounts by Academic Unit

FY2024 Funding Amount Percentages by Academic Unit

N = $29,097,927
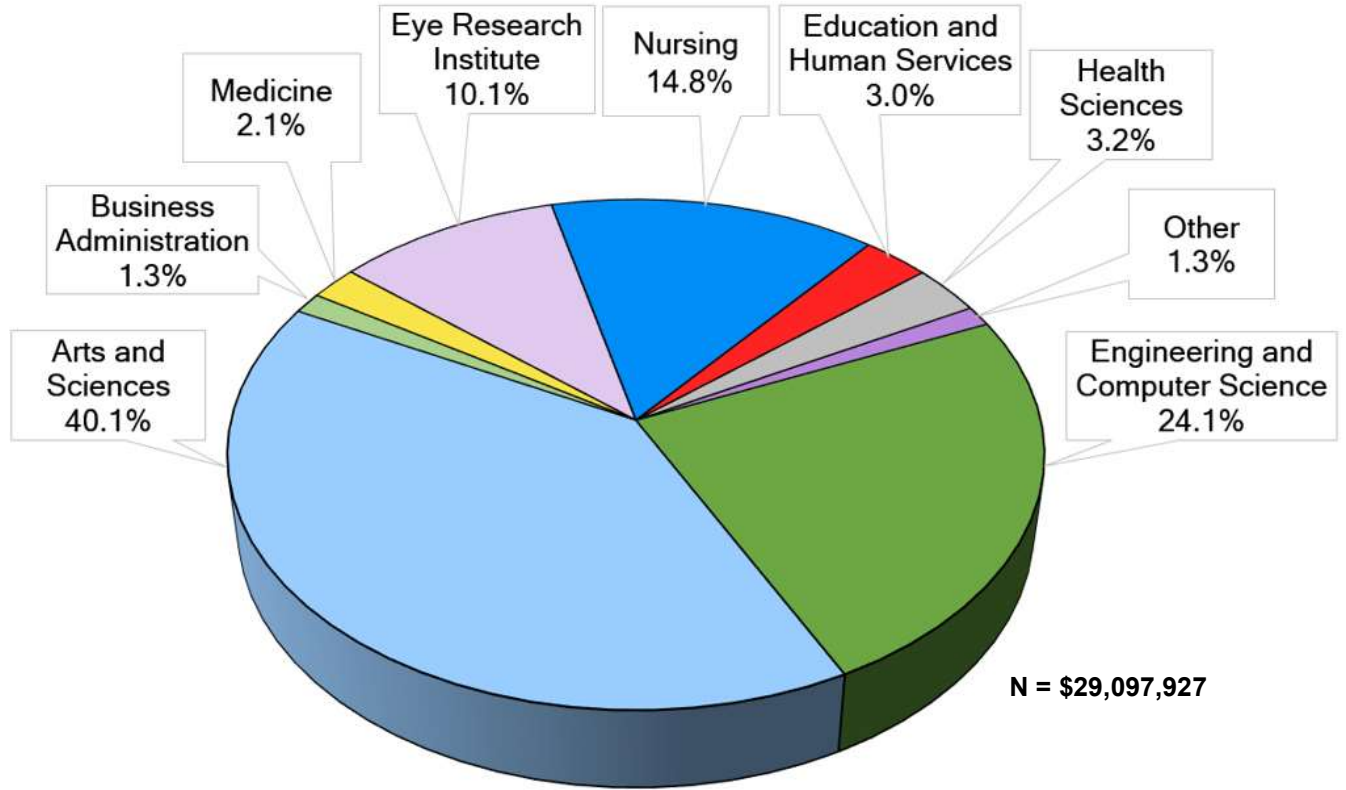
Academic Unit	FY2021	FY2022	FY2023	FY2024	Total
College of Arts and Sciences	5,976,664	6,304,877	5,844,801	11,676,200	29,802,542
Eye Research Institute	1,967,042	1,202,826	0	2,937,305	6,107,173
School of Business Administration	0	0	0	386,870	386,870
School of Engineering & Computer Science	2,298,215	9,546,744	7,705,693	7,019,225	26,569,877
School of Education and Human Services	95,800	137,500	320,626	876,537	1,430,463
School of Health Sciences	137,938	421,084	2,977,691	916,867	4,453,580
School of Medicine	2,497,150	1,292,647	768,841	624,978	5,183,616
School of Nursing	2,493,667	298,651	10,378,432	4,290,254	17,461,004
Other	643,501	6,006,740	950,483	369,691	7,970,415
Total	**$16,109,977**	**$25,211,069**	**$28,946,567**	**$29,097,927**	**$99,365,540**

FY2024 Department Rankings - Total Funding

Rank	Department/Unit	Dollars	Parent Unit
1	Biological Sciences	7,188,054	College of Arts and Sciences
2	Nursing	4,290,254	School of Nursing
3	Mechanical Engineering	3,810,582	School of Engineering and Computer Science
4	Eye Research Institute	2,937,305	Eye Research Institute
5	Chemistry	2,799,038	College of Arts and Sciences

FY2024 Non-Academic and Other Unit Rankings - Total Funding

Rank	Department/Unit	Dollars
1	OU Incubator	202,000
2	Center for Multicultural Initiatives	94,691
3	Police Department	48,000
4	Educational Resource Laboratory	25,000

FY2024 Department Rankings - Research Dollars

Rank	Department/Unit	Dollars	Parent Unit
1	Biological Sciences	7,093,054	College of Arts and Sciences
2	Mechanical Engineering	3,727,019	School of Engineering and Computer Science
3	Eye Research Institute	2,937,305	Eye Research Institute
4	Chemistry	2,764,478	College of Arts and Sciences
5	Computer Science and Engineering	1,724,512	School of Engineering and Computer Science

Comparison of FY2023 and FY2024 – Amounts and Number of Awards by Unit

College of Arts and Sciences	FY2023 Awards	No. of Awards	FY2024 Awards	No. of Awards
Office of the Dean	1,048,425	1	0	0
Art, Art History and Design	0	0	11,066	1
Biological Sciences	3,739,974	13	7,188,054	17
Chemistry	773,445	6	2,799,038	12
Communication, Journalism, and Public Relations	150,000	1	0	0
History	0	0	750	1
Mathematics and Statistics	0	0	59,635	1
Physics	51,195	1	661,234	3
Political Science	0	0	101,000	2
Psychology	81,762	5	216,932	2
Sociology and Anthropology	**0**	**0**	**638,491**	**2**
CAS Total	**$5,844,801**	**27**	**$11,676,200**	**41**

Eye Research Institute	FY2023 Awards	No. of Awards	FY2024 Awards	No. of Awards
ERI Total	**$0**	**0**	**$2,937,305**	**4**

School of Business Administration	FY2023 Awards	No. of Awards	FY2024 Awards	No. of Awards
Management and Marketing	0	0	386,870	1
SBA Total	**$0**	**0**	**$386,870**	**1**

School of Engineering and Computer Science	FY2023 Awards	No. of Awards	FY2024 Awards	No. of Awards
Computer Science and Engineering	2,132,671	13	2,073,993	10
Electrical and Computer Engineering	4,421,322	8	760,597	8
Industrial and Systems Engineering	0	0	374,053	3
Mechanical Engineering	1,151,700	11	3,810,582	13
SECS Total	**$7,705,693**	**32**	**$7,019,225**	**34**

School of Education and Human Services	FY2023 Awards	No. of Awards	FY2024 Awards	No. of Awards
Human Development and Child Studies	161,828	5	95,341	3
Teacher and Learning	158,798	2	781,196	1
SEHS Total	**$320,626**	**7**	**$876,537**	**4**

School of Health Sciences	FY2023 Awards	No. of Awards	FY2024 Awards	No. of Awards
Human Movement Science	11,993	3	501,007	3
Interdisciplinary Health Sciences	1,707,377	5	42,502	2
Public and Environmental Wellness	1,258,321	2	373,358	1
SHS Total	**$2,977,691**	**10**	**$916,867**	**6**

School of Medicine	FY2023 Awards	No. of Awards	FY2024 Awards	No. of Awards
SOM Total	**$768,841**	**4**	**$624,978**	**8**

School of Nursing	FY2023 Awards	No. of Awards	FY2024 Awards	No. of Awards
SON Total	**10,378,432**	**2**	**$4,290,254**	**5**

Other	FY2023 Awards	No. of Awards	FY2024 Awards	No. of Awards
Center for Multicultural Initiatives	100,483	1	94,691	1
Counseling Center	101,000	2	0	0
Educational Resource Laboratory	0	0	25,000	1
Kresge Library	4,000	1	0	0
OUCARES	385,000	1	0	0
OU Incubator	130,000	2	202,000	4
Police Department	0	0	48,000	1
Student Affairs and Diversity	230,000	1	0	0
Other Total	**$950,483**	**8**	**$369,691**	**7**

Oakland University Total	FY2023 Awards	No. of Awards	FY2024 Awards	No. of Awards
Grand Total	**$28,946,567**	**90**	**$29,097,927**	**110**

FY 2024 Amount Awarded by Unit and Purpose

College of Arts and Sciences	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
Art, Art History and Design	0	0	11,066	0	0
Biological Sciences	7,093,054	0	0	0	95,000
Chemistry	2,764,478	0	0	0	34,560
Communication, Journalism, and Public Relations	0	0	0	0	0
History	0	0	750	0	0
Mathematics and Statistics	0	0	59,635	0	0
Office of the Dean	0	0	0	0	0
Physics	661,234	0	0	0	0
Political Science	0	0	101,000	0	0
Psychology	216,932	0	0	0	0
Sociology and Anthropology	0	638,491	0	0	0
CAS Total	**$10,735,698**	**$638,491**	**$172,451**	**$0**	**$129,560**

Eye Research Institute	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
ERI Total	**$2,937,305**	**$0**	**$0**	**$0**	**$0**

School of Business Administration	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
Management and Marketing	**386,870**	**0**	**0**	**0**	**0**
SBA Total	**$386,870**	**$0**	**$0**	**$0**	**$0**

School of Engineering and Computer Science	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
Computer Science and Engineering	1,724,512	349,481	0	0	0
Electrical and Computer Engineering	477,497	278,100	5,000	0	0
Industrial and Systems Engineering	223,075	0	0	150,978	0
Mechanical Engineering	3,727,019	8,000	0	75,563	0
SECS Total	**$6,152,103**	**$635,581**	**$5,000**	**$226,541**	**$0**

School of Education and Human Services	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
Human Development & Child Studies	12,246	0	0	83,095	0
Teaching and Learning	781,196	0	0	0	0
SEHS Total	**$793,442**	**$0**	**$0**	**$83,095**	**$0**

School of Health Sciences	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
Human Movement Science	501,007	0	0	0	0
Interdisciplinary Health Sciences	42,502	0	0	0	0
Public and Environmental Wellness	373,358	0	0	0	0
SHS Total	**$916,867**	**$0**	**$0**	**$0**	**$0**

School of Medicine	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
SOM Total	**$592,399**	**$32,579**	**$0**	**$0**	**$0**

School of Nursing	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
SON Total	**$137,331**	**$4,150,000**	**$2,923**	**$0**	**$0**

Other	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
Center for Multicultural Initiatives	0	0	0	94,691	0
Educational Resource Laboratory	0	0	0	25,000	0
OU Incubator	0	0	202,000	0	0
Police Department	0	0	48,000	0	0
Other Total	**$0**	**$0**	**$250,000**	**$119,691**	**$0**

Oakland University Total	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
Grand Total	**$22,652,015**	**$5,456,651**	**$430,374**	**$429,327**	**$129,560**

FY 2024 Amount Awarded by Unit and Source

College of Arts and Sciences	Federal	State/Local	Corporate	Public/ Nonprofit
Art and Art History	0	11,066	0	0
Biological Sciences	3,289,847	34,817	6,000	3,857,390
Chemistry	2,560,478	0	0	238,560
History	0	0	0	750
Mathematics and Statistics	59,635	0	0	0
Physics	652,895	0	0	8,339
Political Science	96,000	5,000	0	0
Psychology	198,981	0	0	17,951
Sociology and Anthropology	0	638,491	0	0
CAS Total	**6,857,836**	**$689,374**	**$6,000**	**$4,122,990**

Eye Research Institute	Federal	State/Local	Corporate	Public/ Nonprofit
ERI Total	**2,503,576**	**$0**	**$0**	**$433,729**

School of Business Administration	Federal	State/Local	Corporate	Public/ Nonprofit
Management and Marketing	386,870	0	0	0
SBA Total	**$386,870**	**$0**	**$0**	**$0**

School of Engineering and Computer Science	Federal	State/Local	Corporate	Public/ Nonprofit
Computer Science and Engineering	2,053,993	20,000	0	0
Electrical and Computer Engineering	315,402	404,474	0	40,721
Industrial and Systems Engineering	246,866	0	127,187	0
Mechanical Engineering	3,540,920	95,563	125,806	48,293
SECS Total	**$6,157,181**	**$520,037**	**$252,993**	**$89,014**

School of Education and Human Services	Federal	State/Local	Corporate	Public/ Nonprofit
Human Development & Child Studies	0	0	0	95,341
Teaching and Learning	781,196	0	0	0
SEHS Total	**$781,196**	**$0**	**$0**	**$95,341**

School of Health Sciences	Federal	State/Local	Corporate	Public/ Nonprofit
Human Movement Science	92,508	0	0	408,499
Interdisciplinary Health Sciences	32,054	0	0	10,448
Public and Environmental Wellness	373,358	0	0	0
SHS Total	**$497,920**	**$0**	**$0**	**$418,947**

School of Medicine	Federal	State/Local	Corporate	Public/ Nonprofit
SOM Total	**$163,624**	**$32,579**	**$122,827**	**$305,948**

School of Nursing	Federal	State/Local	Corporate	Public/ Nonprofit
SON Total	**$131,831**	**$0**	**$0**	**$4,158,423**

Other	Federal	State/Local	Corporate	Public/ Nonprofit
Center for Multicultural Initiatives	0	94,691	0	0
Educational Resource Laboratory	0	25,000	0	0
OU Incubator	0	202,000	0	0
Police Department	0	0	0	48,000
Other Total	**$0**	**$321,691**	**$0**	**$48,000**

Oakland University Total	Federal	State/Local	Corporate	Public/ Nonprofit
Grand Total	**$17,480,034**	**$1,563,681**	**$381,820**	**$9,672,392**

Amount Awarded by Federal Agency

Agency/Sponsor	FY2021	FY2022	FY2023	FY2024
Air Force Office of Scientific Research	0	100,120	0	0
Automotive Research Center	0	0	0	60,402
Defense Advanced Research Projects Agency	291,515	0	0	0
Great Lakes Commission	0	0	0	6,456
Health Resources and Services Administration	2,472,874	1,640,278	1,251,258	0
Michigan Department of Health and Human Services	2,483,851	0	728,823	799,439
Michigan Department of Labor/Economic Growth	102,145	0	0	0
National Aeronautics and Space Administration	32,500	55,400	63,500	28,500
National Center for Manufacturing Sciences	990,000	0	0	111,420
National Institute of Standards and Technology	0	0	3,000,000	3,095,888
National Institute on Disability, Independent Living, and Rehabilitation Research	0	83,050	0	0
National Institutes of Health	5,080,980	6,073,604	2,758,465	5,198,830
National Institute of Justice	0	0	0	308,002
National Science Foundation	1,685,010	6,447,889	4,160,497	6,148,112
National Security Agency	0	147,958	279,572	349,481
North Atlantic Treaty Organization	0	0	0	59,635
United States Air Force	461,078	25,000	0	0
United States Army Research Laboratory	0	321,479	0	386,870
United States Department of Agriculture	0	0	238,340	0
United States Department of Defense	271,909	2,697,320	156,584	24,999
United States Department of Education	304,179	3,554,850	0	
United States Department of Energy	302,565	1,060,000	0	791,000
United States Election Assistance Commission	0	0	0	96,000
United States Fish and Wildlife Service	0	17,445	0	15,000
Federal Agency Funding Total	**$14,478,606**	**$22,224,393**	**$12,637,039**	**$17,480,034**

Amount Awarded by State and Local Agency

Agency/Sponsor	FY2021	FY2022	FY2023	FY2024
Charter Township of Oakland Parks and Recreation	0	3,500	0	0
Department of Environment, Great Lakes and Energy	405,391	0	0	0
Michigan Assoc of Intermediate School Admin	0	0	55,000	0
Michigan Council for Arts and Cultural Affairs	0	0	0	11,066
Michigan Department of Education	72,100	0	0	228,750
Michigan Department of Health and Human Services	89,549	55,000	3,432	442,320
Michigan Department of Labor and Economic Growth	0	0	189,218	0
Michigan Economic Development Corporation	153,544	264,380	130,000	646,474
Michigan Department of Natural Resources	0	0	0	34,817
Michigan Humanities Council	750	0	0	0
Michigan Physical Therapy Association	0	0	1,000	0
Oakland County Health Division	3,500	0	0	0
Oakland Livingston Human Service Agency	0	0	2,500	0
Oakland Parks and Recreation	0	2,000	0	0
State of Michigan	189,218	702,945	0	200,254
Washtenaw Intermediate School District	0	25,000	0	0
State and Local Agency Funding Total	**$914,052**	**$1,052,825**	**$381,150**	**$1,563,681**

Amount Awarded by Corporations

Agency/Sponsor	FY2021	FY2022	FY2023	FY2024
Aquasight, LLC	30,000	0	0	0
Cayman Chemical Company	1,000	0	0	0
Eaton Corporation	16,000	0	0	0
Fiat Chrysler Automobiles	100,000	0	0	0
Fortinet	46,984	0	0	0
General Motors Corporation	31,067	86,478	98,000	0
Georgia Tech Research Corporation	0	0	112,000	125,806
Intergral and Open Systems, Inc.	0	0	75,000	0
Lubrizol Corporation	0	30,000	0	0
Merck Corporate	178,616	0	0	106,976
Mitsubishi Electric Automotive America, Inc.	0	0	0	127,187
Nova Nordisk	0	0	0	12,719
PCR Biosystems	0	0	0	6,000
Proctor and Gamble	0	0	10,000	0
Ripcord Energy Solutions, LLC	0	658,122	0	0
Sapphire North America	2,000	0	0	0
SeaSpine	0	0	16,811	3,132
Corporation Funding Total	**$405,667**	**$774,600**	**$311,811**	**$381,820**

Amount Awarded by Public/Nonprofit Sponsors

Agency/Sponsor	FY2021	FY2022	FY2023	FY2024
Academy of Forensic Nursing	0	0	0	5,000
Alliance of Coalitions for Healthy Communities	11,320	16,582	8,007	17,951
American Association of Colleges of Nursing	0	25,000	0	0
American Cancer Society	0	83,384	0	0
American Chemical Society	0	110,000	0	0
American College of Lifestyle Medicine	0	0	0	10,448
American College of Sports Medicine	0	0	9,993	0
American Heart Association	0	35,000	154,000	754,750
American Nephrology Nurses Association	12,293	0	0	0
American Society for Clinical Lab. Science	4,884	0	0	0
American Society for Engineering Education	0	0	0	8,000
Art Bridges	6,350	0	0	
Battelle Memorial Institute	0	0	0	40,293
Blue Cross Blue Shield of Michigan Foundation	3,000	147,500	0	2,923
Brain Aneurysm Foundation	0	25,000	0	0
Bright Focus Foundation	0	0	0	106,029
CARE House of Oakland County	0	0	28,000	0
Center for Learning and Childhood Development	0	6,565	7,063	0
CH Neilsen Foundation	0	0	550,000	0
Children's Foundation	0	39,800	45,000	0
Community Foundation	0	0	56,000	0
Corewell Health	0	29,748	10,375,000	4,150,000
Daisy Foundation	7,500	0	0	0
Diploma Equity Project	0	0	230,000	0
Easterseals	0	0	1,048,425	0
Flinn Foundation	0	0	0	4,996
Foundation Fighting Blindness	0	0	0	433,729
Hazel Park Schools	0	0	76,328	83,095
Helmsley Charitable Trust	0	0	1,503,893	3,288,575
Henry Ford Health System	59,271	0	0	8,339
Huron Mountain Wildlife Foundation	0	0	0	2,625
Imam Mohammad IBN Saud Islamic University	163,780	0	0	0
Institute of Electrical and Electronics Engineers	0	0	0	5,000
International Organization Health Sports	0	0	1,000	0
Jonas Nursing and Veterans Healthcare	0	15,000	0	0
Kavli Foundation	0	0	55,000	0
Mental Research Institute	0	0	25,000	0
Michigan Commission on Law Enforcement	0	0	0	48,000
Michigan Institute for Clinical and Health Research	10,000	0	0	0
Michigan Health Endowment Fund	0	378,910	896,060	608,418
Michigan Humanities Council	0	0	0	750
Michigan Physical Therapy Association	500	0	0	0
National Ataxia Foundation	0	0	0	50,000
National Center for Civic Innovation	0	0	108.877	0
North Carolina Agricultural and Technical State	0	0	0	30,721
Oak Ridge Associated Universities	0	0	0	5,000
Oakland Livingston Human Service Agency	0	0	0	7,250
Pontiac Regional Chamber	0	112,500	0	0
Purdue University	0	0	4,000	0
Research Corporation for Science Advancement	0	55,000	0	0
Russell Sage Foundation	0	34,274	0	0
Sigma Theta Tau	1,000	0	0	500
Social Sciences and Humanities Research Council	6,754	0	0	0
Spencer Foundation	0	0	49,921	0
United Way	25,000	0	385,000	0
University of Michigan	0	43,988	0	0
W.K. Kellogg Foundation	0	1,000	0	0
Public/Nonprofit Funding Total	**$311,652**	**$1,159,251**	**$15,616,567**	**$9,672,392**

Amounts and Number of Research Awards

Research Awards
Fiscal Years 2021-2024
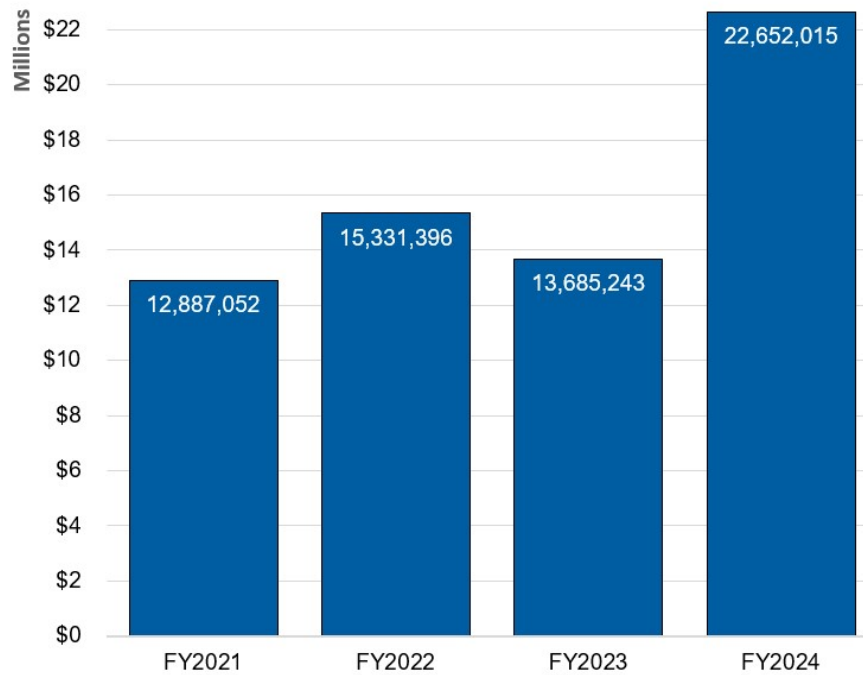
Academic Unit Comparison

College/School	FY2021	FY2022	FY2023	FY2024
College of Arts and Sciences	5,945,914	6,270,603	4,786,376	10,735,698
Eye Research Institute	1,967,042	1,202,826	0	2,937,305
School of Business Administration	0	0	0	386,870
School of Engineering and Computer Science	2,298,215	6,081,736	7,337,386	6,152,103
School of Education and Human Services	10,000	112,500	77,921	793,442
School of Health Sciences	137,938	361,084	738,097	916,867
School of Medicine	2,497,150	1,292,647	741,463	592,399
School of Nursing	30,793	10,000	0	137,331
Other	0	0	4,000	0
Total	**$12,887,052**	**$15,331,396**	**$13,685,243**	**$22,652,015**

FY 2024 Research Awards by Source

Source	Amount	Amount Percentage	Number of Awards	Number Percentage
Federal	16,728,940	73.9%	51	63.0%
State/Local	201,191	0.9%	4	4.9%
Corporate	381,820	1.7%	6	7.4%
Public/Nonprofit	5,340,064	23.5%	20	24.7%
Total	**22,652,015**	**100.0%**	**81**	**100.0%**

Research Awards by Department

Fiscal Years 2021 - 2024

College of Arts and Sciences	FY2021	FY2022	FY2023	FY2024
Art, Art History and Design	6,350	0	0	0
Biological Sciences	882,603	1,690,073	3,739,974	7,093,054
Chemistry	4,089,796	3,366,886	773,445	2,764,478
Communication, Journalism, and Public Relations	0	0	150,000	0
Mathematics and Statistics	198,305	0	0	0
Physics	743,786	717,327	51,195	661,234
Psychology	18,320	496,317	71,762	216,932
Sociology and Anthropology	6,754	0	0	0
CAS Total	**5,945,914**	**$6,270,603**	**$4,786,376**	**$10,735,698**

Eye Research Institute	FY2021	FY2022	FY2023	FY2024
ERI Total	**$1,967,042**	**$1,202,826**	**$0**	**$2,937,305**

School of Business Administration	FY2021	FY2022	FY2023	FY2024
SBA Total	**$0**	**$0**	**$0**	**$386,870**

School of Engineering and Computer Science	FY2021	FY2022	FY2023	FY2024
Computer Science and Engineering	386,746	3,183,391	1,853,099	1,724,512
Electrical and Computer Engineering	477,078	1,654,804	4,421,322	477,497
Industrial and Systems Engineering	0	0	0	223,075
Mechanical Engineering	1,434,391	1,243,541	1,062,965	3,727,019
SECS Total	**$2,298,215**	**$6,081,736**	**$7,337,386**	**$6,152,103**

School of Education and Human Services	FY2021	FY2022	FY2023	FY2024
Human Development and Child Studies	0	112,500	28,000	12,246
Organizational Leadership	0	0	0	0
Reading and Language Arts	10,000	0	0	0
Teaching and Learning	0	0	49,921	781,196
SEHS Total	**$10,000**	**$112,500**	**$77,921**	**$793,442**

Research Awards by Department, continued

Fiscal Years 2021 – 2024

School of Health Sciences	FY2021	FY2022	FY2023	FY2024
Clinical and Diagnostic Sciences	4,884	0	0	0
Human Movement Science	500	198,037	11,993	501,007
Interdisciplinary Health Sciences	121,154	106,482	719,041	42,502
Public and Environmental Wellness	11,400	56,565	7,063	373,358
SHS Total	**$137,938**	**$361,084**	**$738,097**	**$916,867**

School of Medicine	FY2021	FY2022	FY2023	FY2024
SOM Total	**$2,497,150**	**$1,292,647**	**$741,463**	**$592,399**

School of Nursing	FY2021	FY2022	FY2023	FY2024
SON Total	**30,793**	**$10,000**	**$0**	**$137,331**

Other	FY2021	FY2022	FY2023	FY2024
International Education	0	0	0	0
Kresge Library	0	0	4,000	0
Research Office	0	0	0	0
Other Total	**$0**	**$0**	**$4,000**	**$0**

Oakland University Total	FY2021	FY2022	FY2023	FY2024
Grand Total Research	**$12,887,052**	**$15,331,396**	**$13,685,243**	**$22,652,015**
Grand Total Funding	**$16,109,977**	**$25,211,069**	**$28,946,567**	**$29,097,927**

FY 2024 Research Awards by Unit, Department, and Principal Investigator

College of Arts and Sciences

Biological Sciences

Battistuzzi, Fabia; NRT-HDR: Using a Data Analytics Framework to Merge STEM and Entrepreneurial Training; National Science Foundation, $1,999,947

Battistuzzi, Fabia; Longitudinal Evolution of Escherichia Coli in Microgravity; University of Michigan / National Aeronautics and Space Administration, $4,000

Delorme-Axford, Elizabeth; PCR Biosystems: Investigation of the Methyltransferase Rrp8 in Saccharomyces cerevisiae; PCR Biosystems, $6,000

Figueiredo, Vandre; Reverse Engineering Cancer Cachexia: Muscle Ribosome Biogenesis in the Etiology of Cachexia; National Institutes of Health, $429,048

Jamieson, Mary; Investigating the Role of Fire and Invasive Species Management on Plant-Pollinator Interaction Networks in Vulnerable Grassland Habitats; United States Fish and Wildlife, $15,000

Oleksyk, Taras; A Comprehensive Study of T1D Exomes (Phase 2); Helmsley Foundation, $3,288,575

Song, Mi Hye; Proteolytic Regulation of Centrosome Assembly; National Institutes of Health, $99,900

Song, Mi Hye; Administrative Supplement for Purchase of a Temperature-Controlled Incubator; National Institutes of Health, $12,985

Tiegs, Scott; New Zealand Mudsnails and Didymo: Developing a Single and Effective Decontamination Protocol for Wading Anglers; Michigan Department of Natural Resources, $34,817

Tiegs, Scott; The Impact of Artificial Light at Night (ALAN) on Emergent Aquatic Insect Communities; Huron Mountain Wildlife Foundation, $2,625

Villa-Diaz, Luis; Sugar-Coating Our Way to Genetically Modified Mesenchymal Stem Cells: Glycocalyx-Inspired Cell Culture Substrates that Prime Mesenchymal Stem Cells for Polycation-Mediated pDNA Delivery; Colorado School of Mines / National Institutes of Health, $128,173

Wendell, Douglas; Genetic Identification of Phragmites Subspecies; Great Lakes Commission, $6,456

Westrick, Randal; Investigating the Functional Roles of ArI6ip5 in Suppressing Thrombosis; National Institutes of Health, $450,000

Westrick, Randal; Bridging Basic and Clinical Science in Heart and Brain Inflammation: The Roles of Metabolic Stress and Senescence; University of Michigan / American Heart Association, $401,190

Westrick, Randal; Oakland University Summer Undergraduate Research Program; American Heart Association, $165,000

Westrick, Randal; Genetic Regulators of Plasminogen Activator Inhibitor-1; University of Michigan / National Institutes of Health, $49,338

Chemistry

Avery, Adam; Functional Consequences of Cardiomyopathy Mutations in Alpha-Actinin; American Heart Association, $154,000

Avery, Adam; A Cerebellum-Specific ß-III Spectrin Protein Interaction Network for SCA5 Insights; National Ataxia Foundation, $50,000

Beyeh, Ngong Kodiah; CAREER: CAS: Structured Assemblies of Block Copolymers and Macrocycles with the Novel Halogen Bond; National Science Foundation, $551,720

Kinney, Zacharias; LEAPS-MPS: It Takes a Village: Synergistic Assembly of Naphthodithiophene-Based Organic Macrocycles and Metallomacrocycles; National Science Foundation, $250,000

Kinney, Zacharias; Finding a Silver Lining: Carbene-Silver-Carbazolide Complexes as Luminescent Materials; University of Michigan / National Aeronautics and Space Administration, $4,000

Szlag, David; SEWER 2025 Network Project; Michigan Department of Health and Human Services, $799,439

Wang, Zhe; Developing a Portable and Fast Opioid Assessment Tool for Improved Field Decision-Making; National Institute of Justice, $308,002

Wang, Zhe; National Science Foundation Convergence Accelerator Track L: An Integrated and Miniaturized Opioid Sensor System: Advancing Evidence-Based Strategies for Addressing the Opioid Crisis; Auburn University / National Science Foundation, $219,947

Zeng, Xiangqun; Implantable Real-Time Troponin Biosensor for Early Diagnosis of Silent Cardiac Injuries; National Institutes of Health, $427,370

Physics

Cholis, Ilias; Searching for Dark Matter Signals in Cosmic-Ray and Gamma-Ray Observations; Department of Energy, $191,000

Tonyushkin, Alexey; A Single-Sided Magnetic Particle Imaging Scanner for In Vivo Breast Cancer Imaging; National Institutes of Health, $461,895

Xia, Yang; Graduate Student Support for Medical Physics Research at Henry Ford Hospital; Henry Ford Health System, $8,339

Psychology

Escobar, Martha; Collaborative Research: SEI: Creating a Lasting LEGACY - Scaling a Peer-learning Community Model to Provide AP CS Preparation and Career Awareness for Black Young Women; National Science Foundation, $198,981

Lewis, Mary; Social Norms Intervention Assessment; Alliance of Coalitions for Health Communities, $17,951

Eye Research Institute

Goldberg, Andrew; Natural History and AAV-Mediated Interventions for Dominant Negative and Haploinsufficient Mouse Models of PRPH2-Associated Disease; Foundation Fighting Blindness, $433,729

Milton, Kenneth; Noregen, A Regenerative Medicine Ocular Therapeutic; Caeregen / National Institutes of Health, $442,351

Zhang, Dao-Qi; The Underlying Mechanisms of Visual Impairment and Myopia in Prematurity; National Institutes of Health, $1,632,209

Zhang, Dao-Qi; Pacemakers of Cholinergic Wave Activity in the Developing Retina; National Institutes of Health, $429,016

School of Business Administration

Hammond, Michelle; Leadership Identity Dynamics in Work and Beyond: Conceptualization, Measurement, and Intervention; University of Durham / United States Army, $386,870

School of Engineering and Computer Science

Computer Science and Engineering

Chen, Jun; Sensor Reduction for Battery Cell State-of-Change Estimation; Michigan State University / Michigan Economic Development Corporation, $20,000

Chen, Jingshu; ERI: EMRadar: A Practical Sensing System on the Electromagnetic Side-Channel of IoT; National Science Foundation, $197,463

Fu, Huirong; REU Site: Undergraduate Computer Research in Cybersecurity and AI (UnCoRe-CyberAI); National Science Foundation, $450,292

Liu, Anyi; Reinforcing Resource-Constrained UAV with High-Performance and Scalable LLM Cohorts; University of Michigan / National Aeronautics and Space Administration, $5,000

Malik, Khalid; PFI–TT: Development of an Explainable and Robust Detector of Forged Multimedia and Cyber Threats Using Artificial Intelligence; National Science Foundation, $272,896

Raj, Sunny; Mobilizing the Emerging Diverse AI Talent (MEDAL) Through Design and Automated Control of Autonomous Scientific Laboratories; Department of Energy, $600,000

Raj, Sunny; CRII: SHF: IMMENSE: In-Memory Machine Learning Using Sneak-Paths in Crossbars for Robustness and Energy Efficiency; National Science Foundation, $174,861

Rrushi, Julian; Advancing Cybercriminal Profiling Using a Physics-Based AI Model of Adversary Cognition; University of Michigan / National Aeronautics and Space Administration, $4,000

Electrical and Computer Engineering

Chen, Jun; Sensor Reduction for Large Battery Packs; University of Michigan / Michigan Economic Development Corporation, $126,374

Chen, Jun; CAREER: Reconfigurable and Predictive Control with Reinforcement Learning Supervisor for Active Battery Cell Balancing; National Science Foundation, $55,000

Chen, Jun; Ocean Energy Supported Multi-Energy System Planning and Operation Optimization for Sustainable Coastal Community; North Carolina Agricultural and Technical State University / Coastal Studies Institute, $30,721

Louie, Wing-Yue Geoffrey; A Center of Excellence in Modeling and Simulation of Ground Vehicles U.S. Army Ground Vehicle System Center, Detroit Arsenal, Michigan; Automotive Research Center, $60,402

Wiacek, Alycen; ERI: Development of a Wireless 3D Breast Ultrasound Imaging System for Low-Resource Settings; National Science Foundation, $200,000

Wiacek, Alycen; Augmented Reality for Multimodal Acoustic-Based Breast Biopsy; Oak Ridge Associated Universities, $5,000

Industrial and Systems Engineering

Malik, Ali Ahmad; Intelligent Digital Twins to Build Resilient Smart Factories; National Institute for Standards and Technology, $95,888

Pandey, Vijitashwa; Using a Driving Simulator to Collect Data on Impaired Driving Performance; Mitsubishi Electric Automotive America, Inc., $127,187

Mechanical Engineering

Beetham, Sarah; ERI: Simulation and Modeling of Polydisperse Gas-Solid Flows; National Science Foundation, $200,000

Beetham, Sarah; Simulation and Modeling of the Settling Behavior of Polydisperse Gas-Solid Flows with Application to Pyroclastic Density Currents; University of Michigan / National Aeronautics and Space Administration, $5,000

Golovashchenko, Sergey; Local Property Improvement for Wrought Aluminum and Cast Magnesium; Battelle Memorial Institute, $40,293

Guessous, Laila; Michigan Space Grant Consortium Administrator; University of Michigan / National Aeronautics and Space Administration, $1,500

Maisonneuve, Jonathon; ERI: Fertilizer-Based Liquid Desiccants: New Possibilities for Energy Efficient Dehumidification and Water Recycling; National Science Foundation, $18,000

Monroe, Ryan; ERI: System Tautochronic Pendulum Vibration Absorbers for Next-Generation Propulsion Systems and Other Machinery; National Science Foundation, $200,000

Nassar, Sayed; Industry-University Cooperative Research Center (IUCRC) Program; Georgia Tech Research Corp, $125,806

Nassar, Sayed; Fatigue of High-Performance Adhesives; National Center for Manufacturing Sciences, $111,420

Yang, Ankun; Rapid Manufacturing of Sodium Metal Anodes; University of Michigan / National Aeronautics and Space Administration, $5,000

Yang, Ankun; Thermo-Assisted Spin Coater; Michigan State University / Michigan Economic Development Corporation, $20,000

Yang, Ankun; Next-Gen Electrification Testing and Standards Facility: From Materials to Vehicles; National Institute of Standards and Technology, $3,000,000

School of Education and Human Services

Human Development and Child Studies

Wakabayashi, Tomoko; Empowering Pontiac Youths as Michigan ACE Community Champions; Flinn Foundation, $4,996

Wakabayashi, Tomoko; OUPIECE: Empowering Pontiac Youth as Trauma and HOPE-Informed Future Community Leaders; Oakland Livingston Human Service Agency, $7,250

Teaching and Learning

Woods, Dawn; CAREER: Sparking "Number Talks" to Strengthen Mathematical Identities; National Science Foundation, $781,196

School of Health Sciences

Human Movement Science

Haworth, Joshua; Communicating Cancer Risk of Alcohol: Impact of Narrative Pictorial Warning Labels; University of Connecticut / National Institutes of Health, $8,328

Jones, Melissa; Sedentary Behavior, Physical Activity, and 24-Hour Behavior in Pregnancy and Offspring; University of Iowa / National Institutes of Health, $84,180

Wilson, Christopher; Access 211 for Fall Prevention: Development, Validation, and Implementation of a Statewide Resource for Fall Prevention Services; Michigan Health Endowment Fund, $408,499

Interdisciplinary Health Sciences

Reznar, Melissa; Developing and Testing a Mobile App to Optimize Food Pantry Capacity, Food Quality and Client Food and Nutrition Security Among Low-Income Households; Johns Hopkins University / National Institutes of Health, $32,054

Reznar, Melissa; Lifestyle Medicine Integration in Health Systems: A Qualitative Case Series; American College of Lifestyle Medicine, $10,448

Public and Environmental Wellness

Sakyi, Kwame; A Multi-Method, Multi-Domain Approach to Evaluating Preterm's Effect on Child Growth and Development; National Institutes of Health, $373,358

School of Medicine

Afonso, Nelia; Promoting Vaccine Confidence in Medical and Dental Students: Development and Evaluation of an Educational Intervention; Merck Corporation, $106,976

Baxa, Dwayne; Evaluation of Bacteriostatic Characteristics of NanoMetaline; Seaspine, $3,132

Cucullo, Luca; A System for Engineering Nanocarriers Able to Transport Across the Blood-Brain Barrier; Parabon Nano Labs, Inc / United States Department of Defense, $24,999

Homayouni, Ramin; Using AI to Target Maternal SDoH Needs for CHW Intervention; Michigan Health Endowment Fund, $199,919

Karamyan, Vardan; Development and Characterization of Peptidomimetic Small Molecule Activators of Peptidase Neurolysin for Stroke Therapy; National Institutes of Health, $138,625

Risner, Michael; Harnessing Intercellular Mitochondrial Transfer in Human-Derived Retinal Cells to Treat Glaucoma; Bright Focus Foundation, $106,029

Uhley, Virginia; Health Care Professional Consulting Services Agreement: To Expand Access to Evidence-Based Care for Patients with Obesity; Novo Nordisk, $12,719

School of Nursing

Berishaj, Kelly; Preventing Online-to-Offline Sexual Violence with Explainable Data Feeds to Inform User Behavior; University of Michigan / National Science Foundation, $131,831

Berishaj, Kelly; Quantification of Manual, External Pressure Required to Occlude Neck Vasculature; Academy of Forensic Nursing, $5,000

Boni, Rebecca; Oncology Nurses' Professional Quality of Life Survey Development; Sigma Theta Tau, $500

Amounts and Number of Instruction Awards
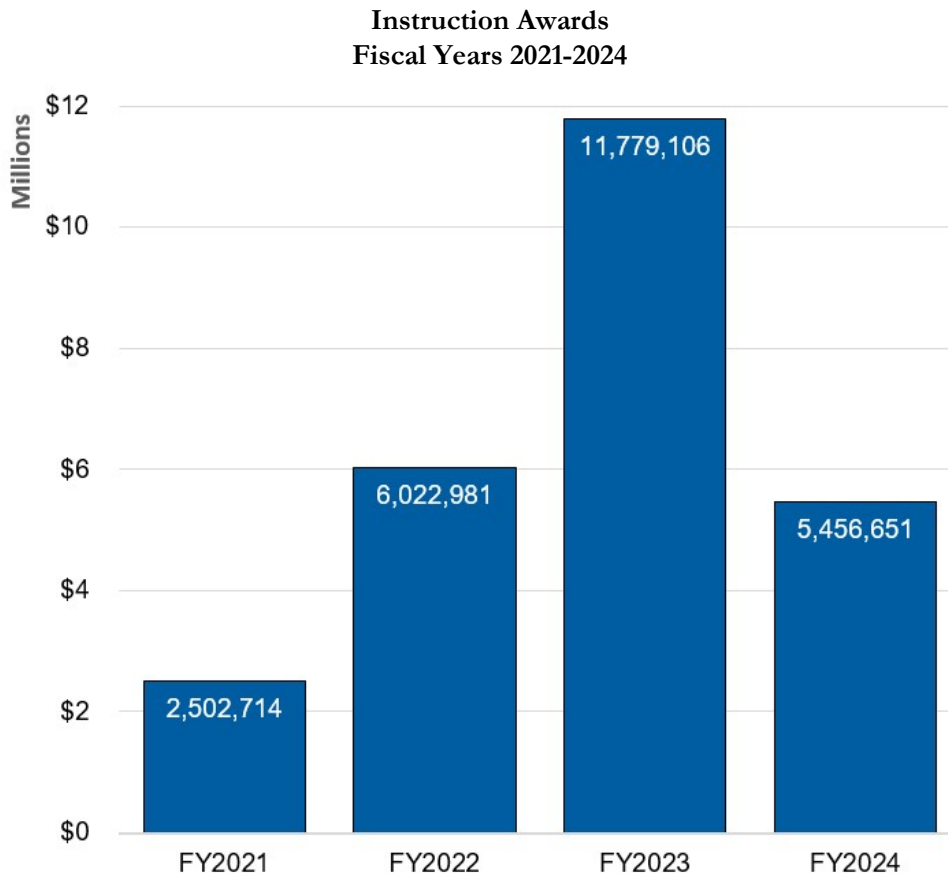
Instruction Awards
Fiscal Years 2021-2024

Academic Unit Comparison

Academic Unit	FY2021	FY2022	FY2023	FY2024
College of Arts and Sciences	0	0	0	638,491
School of Engineering and Computer Science	0	147,958	149,416	635,581
School of Health Sciences	0	0	1,251,258	0
School of Nursing	2,195,252	243,373	10,378,432	4,150,000
School of Medicine	0	0	0	32,579
Other	307,462	5,631,650	0	0
Total	**$2,502,714**	**$6,022,981**	**$11,779,106**	**$5,456,651**

FY 2024 Instruction Awards by Source

Source	Amount	Amount Percentage	Number of Awards	Number Percentage
Federal	349,481	6.4%	2	25%
Public/Non-Profit	4,158,000	76.2%	2	25%
State/Local	949,170	17.4%	4	50%
Total	**$5,456,651**	**100%**	**8**	**100%**

Instruction Awards by Department

Fiscal Years 2021-2024

College of Arts and Sciences	FY2021	FY2022	FY2023	FY2024
Sociology and Anthropology	0	0	0	638,491
CAS Total	**$0**	**$0**	**$0**	**$638,491**

School of Engineering and Computer Science	FY2021	FY2022	FY2023	FY2024
Computer Science and Engineering	0	147,958	149,416	349,481
Electrical and Computer Engineering	0	0	0	278,100
Mechanical Engineering	0	0	0	8,000
SECS Total	**$0**	**$147,958**	**$149,416**	**$635,581**

School of Health Sciences	FY2021	FY2022	FY2023	FY2024
Public and Environmental Wellness	0	0	1,251,258	0
SEHS Total	**$0**	**$0**	**$1,251,258**	**$0**

School of Medicine	FY2021	FY2022	FY2023	FY2024
SOM Total	**$0**	**$0**	**$0**	**$32,579**

School of Nursing	FY2021	FY2022	FY2023	FY2024
SON Total	**$2,195,252**	**$243,373**	**$10,378,432**	**$4,150,000**

Other	FY2021	FY2022	FY2023	FY2024
Academic Affairs	0	1,600,000	0	0
Center for Multicultural Initiatives	0	0	0	0
Graduate School	0	25,000	0	0
International Education	0	0	0	0
Lowry Center for Early Childhood	0	412,000	0	0
OUCARES	0	39,800	0	0
Pre-College Programs	0	0	0	0
Student Affairs and Diversity	100,483	0	0	0
Upward Bound	206,979	3,554,850	0	0
CAS Total	**$307,462**	**$5,631,650**	**$0**	**$0**

Oakland University Total	FY2021	FY2022	FY2023	FY2024
Grand Total Instruction	**$2,502,714**	**$6,022,981**	**$11,779,106**	**$5,456,651**
Grand Total Funding	**16,109,977**	**$25,211,069**	**$28,946,567**	**$29,097,927**

FY 2024 Instruction Awards by Unit, Department and Principal Investigator

College of Arts and Sciences

Sociology and Anthropology

Beam, Maria; Master Social Work Student Support – 2024; Michigan Department of Health and Human Services, $409,741

Beam, Maria; Advancing School Social Work through Enhanced Training and Stipends in Southeast Michigan; Michigan Department of Education, $228,750

School of Engineering and Computer Science

Computer Science and Engineering

Fu, Huirong; 2023 GenCyber Program: A GenCyber Teacher Program for Middle and High School Teachers with a Diversity of Socio-Economic Status, Gender, and Ethnicity in the Detroit Urban Area; National Security Agency, $284,553

Fu, Huirong; Autonomous and Connected Vehicle Cybersecurity Curriculum; Towson University / National Security Agency, $64,928

Electrical and Computer Engineering

Qu, Hongwei; Semiconductor Certificate Program for Engineers; Michigan Economic Development Corporation, $278,100

Mechanical Engineering

Beetham, Sarah; Planting SEEDS (Sustainable Engineering Educational Development and Support) at Oakland University; American Society for Engineering Education, $8,000

School of Medicine

Clemans, Rebecca; MI CARES 3.0: Education on Treating Persons with Substance Use Disorder; Michigan State University / Michigan Department of Health and Human Services, $32,579

School of Nursing

St Denis, Michele; Corewell Health Participant Support-Corewell Health Nurse Scholars Program; Corewell Health, $4,150,000

Amounts and Number of Public Service Awards
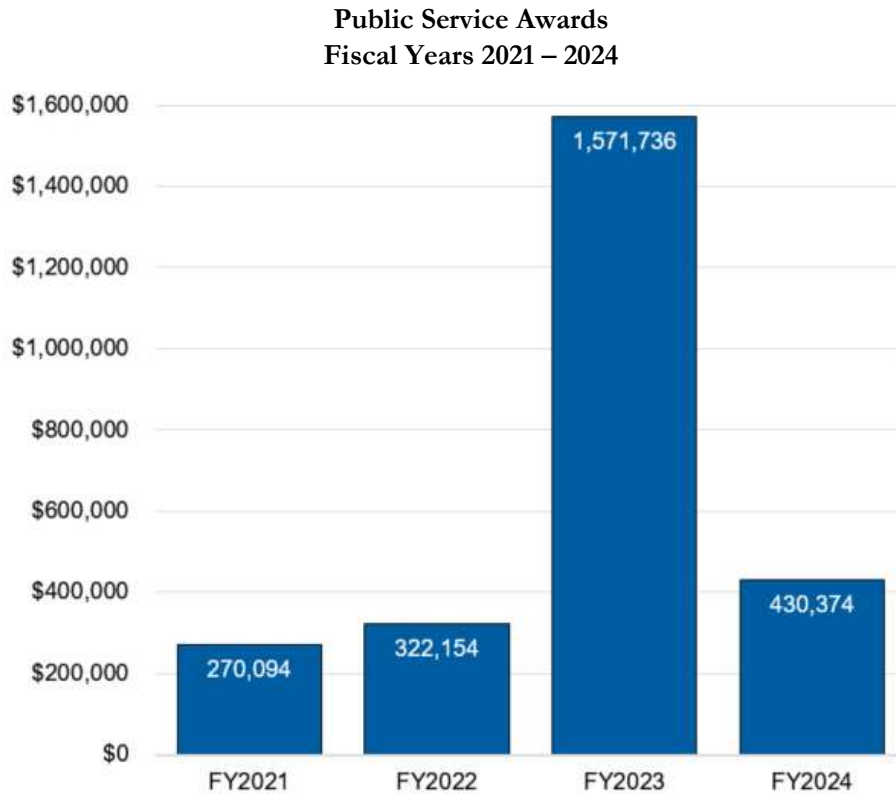
Public Service Awards
Fiscal Years 2021 – 2024

Academic Unit Comparison

Academic Unit	FY2021	FY2022	FY2023	FY2024
College of Arts and Sciences	30,750	34,274	10,000	172,451
School of Engineering and Computer Science	0	30,000	0	5,000
School of Education and Human Services	85,800	25,000	58,400	0
School of Health Sciences	0	60,000	988,336	0
School of Nursing	0	0	0	2,923
Other	153,544	172,880	515,000	250,000
Total	**$270,094**	**$322,154**	**$1,571,736**	**$430,374**

FY 2024 Public Service Awards by Source

Source	Amount	Amount Percentage	Number of Awards	Number Percentage
Federal	155,635	36.2%	2	16.7%
State/Local	218,066	50.6%	6	50%
Corporate	0	0%	0	0%
Public/Nonprofit	56,673	13.2%	4	33.3%
Total	**$430,374**	**100.0%**	**12**	**100.0%**

Public Service Awards by Department

College of Arts and Sciences	FY2021	FY2022	FY2023	FY2024
Art, Art History and Design	750	0	0	11,066
Chemistry	30,000	0	0	0
History	0	0	0	750
Mathematics and Statistics	0	0	0	59,635
Political Science	0	0	0	101,000
Psychology	0	34,274	10,000	0
CAS Total	**$30,750**	**$34,274**	**$10,000**	**$172,451**

School of Engineering and Computer Science	FY2021	FY2022	FY2023	FY2024
Electrical and Computer Engineering	0	0	0	5,000
Mechanical Engineering	0	30,000	0	0
SECS Total	**$0**	**$30,000**	**$0**	**$5,000**

School of Education and Human Services	FY2021	FY2022	FY2023	FY2024
Human Development and Child Studies	85,800	25,000	58,400	0
SEHS Total	**$85,800**	**$25,000**	**$58,400**	**$0**

School of Health Sciences	FY2021	FY2022	FY2023	FY2024
Interdisciplinary Health Sciences	0	60,000	988,336	0
SHS Total	**$0**	**$60,000**	**$988,336**	**$0**

School of Nursing	FY2021	FY2022	FY2023	FY2024
SON Total	**$0**	**$0**	**$0**	**$2,923**

Other	FY2021	FY2022	FY2023	FY2024
Lowry Center for Early Childhood	0	1,000	0	
Macomb-OU Incubator	98,663	0	0	
OU CARES	0	0	385,000	
OU Incubator	54,881	71,880	30,000	202,000
Police Department	0	0	0	48,000
Research Office	0	100,000	100,000	0
Other Total	**$153,544**	**$172,880**	**$515,000**	**$250,000**

Oakland University Total	FY2021	FY2022	FY2023	FY2024
Total Public Service Awards	**$270,094**	**$322,154**	**$1, 571,736**	**$430,374**
Grand Total Funding	**$16,109,977**	**$25,211,069**	**$28,946,567**	**$29,097,927**

FY 2024 Public Service Awards by Unit, Department and Principal Investigator

College of Arts and Sciences

Art, Art History and Design

Goody, Dick; Nostalgia & Outrage: An Exhibition by Mary Fortuna and Adrian Hatfield; Michigan Arts and Culture Council, $11,066

History

Clark, Daniel; Native Perspectives on Firekeeper's Daughter: Michigan Humanities' Great Michigan Read Creates a Statewide Discussion Around a Michigan Themed Book; Michigan Humanities Council, $750

Mathematics and Statistics

Shaska, Tony; Advance Research Workshop: Isogeny-Based Post-Quantum Cryptography; North Atlantic Treaty Organization, $59,635

Political Science

Dulio, David; Meeting the Need: Partnering with Local Clerks in Michigan's New Election Reality; United States Election Assistance Commission, $96,000

Dulio, David; Michigan Student Voting Summit Support; State of Michigan, $5,000

School of Engineering and Computer Science

Electrical and Computer Engineering

Louis, Steven; 2024 International Conference on Microwave Magnetics; Institute of Electrical and Electronics Engineers, $5,000

School of Nursing

Kruse, Julie; Dali Majeed: Utilizing the Health Belief Model to Explore Factors Influencing Intention to Seek Mental Health Services in Chaldean Adults; Blue Cross Blue Shield of Michigan Foundation, $2,923

Other

OU Incubator

Kent, Stephen; Business Incubator Programs: Incubator Gatekeeper; Michigan Economic Development Corporation, $145,000

Kent, Stephen; Accelerator Development Funds-Discretionary Funds; Grand Valley State University / Michigan Economic Development Corporation, $30,000

Kent, Stephen; Business Accelerator Fund-Client Engagement Fund-Simple Vision Technology; Grand Valley State University / Michigan Economic Development Corporation, $20,000

Kent, Stephen; Business Accelerator Fund-Client Engagement Fund-Leelayan, Inc.; Grand Valley State University / Michigan Economic Development Corporation, $7,000

Police Department

Gordon, Mark; MCOLES Public Safety Academy Assistance Program; Michigan Commission on Law Enforcement Standards, $48,000.

Amounts and Number of Student Service Awards

Student Service Awards
Fiscal Years 2021 – 2024
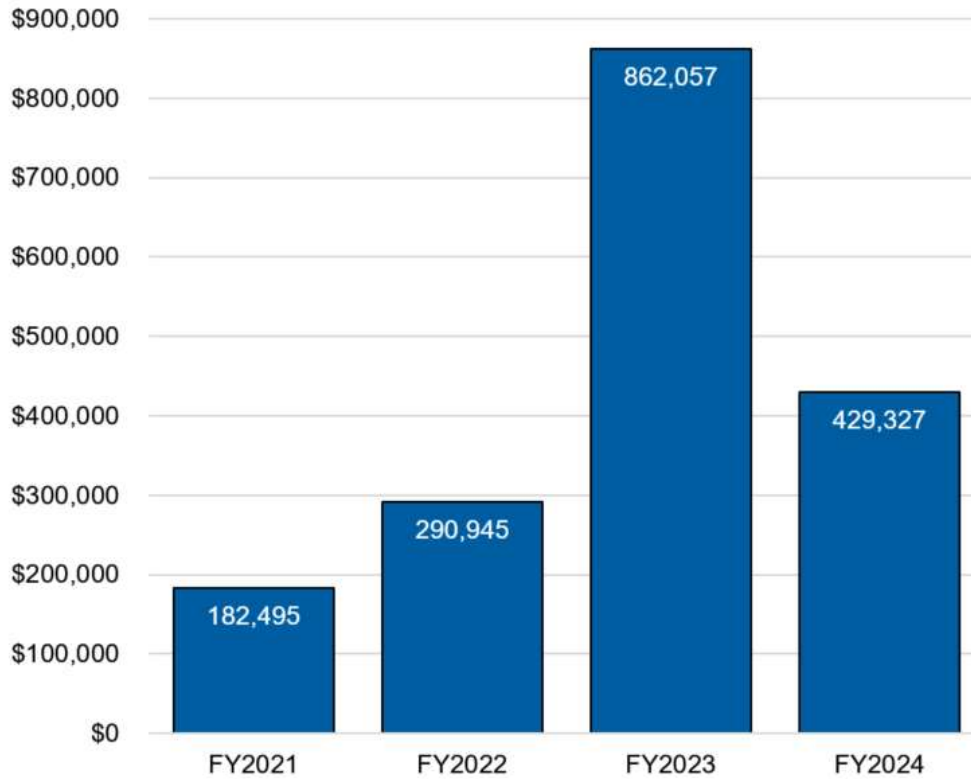
Academic Unit Comparison

Academic Unit	FY2021	FY2022	FY2023	FY2024
School of Education and Human Services	0	0	184,305	83,095
School of Engineering and Computer Science	0	88,735	218,891	226,541
School of Medicine	0	0	27,378	0
Other	182,495	202,210	431,483	119,691
Total	**$182,495**	**$290,945**	**$862,057**	**$429,327**

FY 2024 Student Services Awards by Source

Source	Amount	Amount Percentage	Number of Awards	Number Percentage
Federal	150,978	35.2%	1	20.0%
State/Local	195,254	45.5%	3	60.0%
Corporate	0	0.0%	0	0.0%
Public/Nonprofit	83,095	19.3%	1	20.0%
Total	**$429,327**	**100.0%**	**5**	**100.0%**

Student Service Awards by Department

School of Education and Human Services	FY2021	FY2022	FY2023	FY2024
Human Development and Child Studies	0	0	75,428	83,095
Teaching and Learning	0	0	108,877	0
SEHS Total	**$0**	**$0**	**$184,305**	**$83,095**

School of Engineering and Computer Science	FY2021	FY2022	FY2023	FY2024
Computer Science and Engineering	0	0	130,156	
Industrial and Systems Engineering	0	0	0	150,978
Mechanical Engineering	0	88,735	88,735	75,563
SECS Total	**$0**	**$88,735**	**$218,891**	**$226,541**

School of Medicine	FY2021	FY2022	FY2023	FY2024
Foundational Medical Studies	0	0	27,378	0
SOM Total	**$0**	**$0**	**$27,378**	**$0**

Other	FY2021	FY2022	FY2023	FY2024
Center for Multicultural Initiatives	0	100,483	100,483	94,691
Counseling Center	0	0	101,000	0
Diversity, Equity and Inclusion	0	0	0	0
Educational Resource Library	0	0	0	25,000
Kresge Library	0	0	0	0
Pre-College Programs	182,495	101,727	0	0
Student Affairs and Diversity	0	0	230,000	0
Other Total	**$182,495**	**$202,210**	**$431,483**	**$119,691**

Oakland University Total	FY2021	FY2022	FY2023	FY2024
Total Student Services Awards	**$182,495**	**$290,945**	**$862,057**	**$429,327**
Grand Total Funding	**$16,109,977**	**$25,211,069**	**$28,946,567**	**$29,097,927**

FY 2024 Student Service Awards by Unit, Department and Principal Investigator

School of Education and Human Services

Human Development and Child Studies

> Kranak, Michael; Mi-GUIDES: Michigan Groups United to Inspire, Drive, and Educate Students; Hazel Park Schools, $83,095

School of Engineering and Computer Science

Industrial and Systems Engineering

> Olawoyin, Richard; ADVANCE - BELONG: (Building Equity, Leadership, and Opportunities for a New Generation) Summit; National Science Foundation, $150,978

Mechanical Engineering

> Kobus, Krzysztof; MICUP - Michigan College/University Partnership Program 2023-2029; State of Michigan, $75,563

Other

Center for Multicultural Initiatives

> Brown-El, Omar; Select Student Support Services: 4S-KCP CORE; State of Michigan, $94,691

Educational Resource Library

> Kempski, Melissa; Library of Manipulatives; Institute of Museum and Library Services / State of Michigan, $25,000

Amounts and Number of Scholarship and Fellowship Awards

Scholarship and Fellowship Awards
Fiscal Years 2021 – 2024
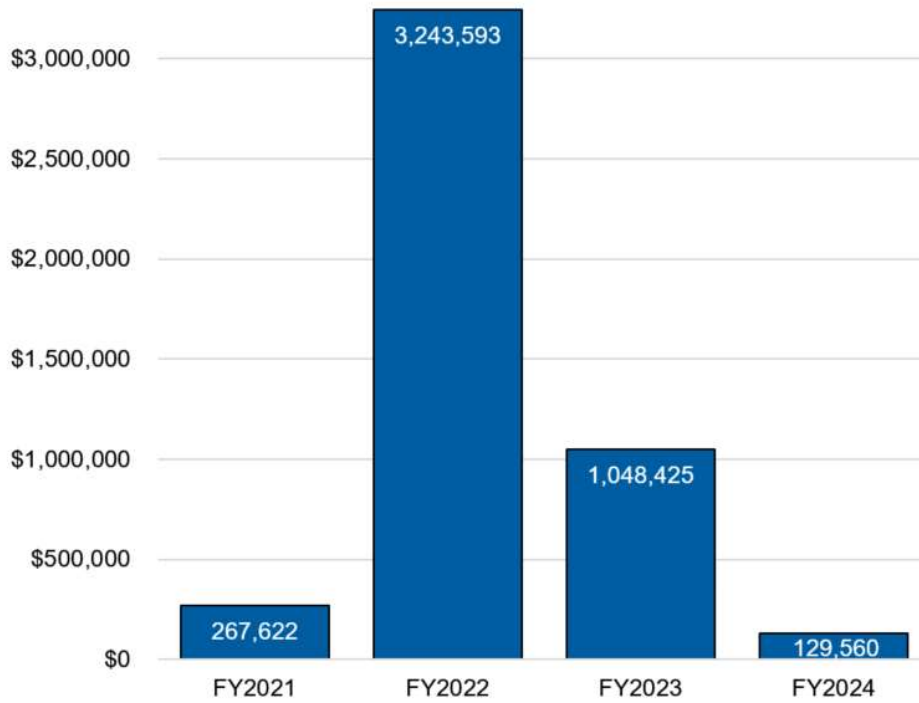
Academic Unit Comparison

Academic Unit	FY2021	FY2022	FY2023	FY2024
College of Arts and Sciences	0	0	1,048,425	$129,560
School of Engineering and Computer Science	0	3,198,315	0	0
School of Nursing	267,622	45,278	0	0
Total	**$267,622**	**$3,243,593**	**$1,048,425**	**$129,560**

FY 2024 Scholarship and Fellowship Awards by Source

Source	Amount	Amount Percentage	Number of Awards	Number Percentage
Federal	95,000	73.0%	1	25.0%
State/Local	0	0.0%	0	0.0%
Corporate	0	0.0%	0	0.0%
Public/Nonprofit	34,560	27.0%	3	75.0%
Total	**$129,560**	**100.0%**	**4**	**100.0%**

Scholarship and Fellowship Awards by Department

College of Arts and Sciences	FY2021	FY2022	FY2023	FY2024
Biological Sciences	0	0	0	95,000
Chemistry	0	0	0	34,560
CAS Total	**$0**	**$0**	**$0**	**$129,560**

School of Engineering and Computer Science	FY2021	FY2022	FY2023	FY2024
Computer Science and Engineering	0	3,198,315	0	0
SECS Total	**$0**	**$3,198,315**	**$0**	**$0**

School of Nursing	FY2021	FY2022	FY2023	FY2024
SON Total	**$267,622**	**$45,278**	**$0**	**$0**

Other	FY2021	FY2022	FY2023	FY2024
Office of the Dean	0	0	1,048,425	$0
Other Total	**$0**	**$0**	**$1,048,425**	**$0**

Oakland University Total	FY2021	FY2022	FY2023	FY2024
Total Scholarship and Fellowship Awards	**$267,622**	**$3,243,593**	**$1,048,425**	**$129,560**
Grand Total Funding	**$16,109,977**	**$25,211,069**	**$28,946,567**	**$29,097,927**

FY 2024 Scholarship and Fellowship Awards by Unit, Department and Principal Investigator

College of Arts and Sciences

Biological Sciences

Tiegs, Scott; Graduate Research Fellowship Program (GRFP); National Science Foundation, $95,000

Chemistry

Wu, Colin; American Heart Association SURE Program for Villafranca; American Heart Association, $11,520

Wu, Colin; American Heart Association SURE Program for Ward; American Heart Association, $11,520

Wu, Colin; American Heart Association SURE Program for Yakubu; American Heart Association, $11,520
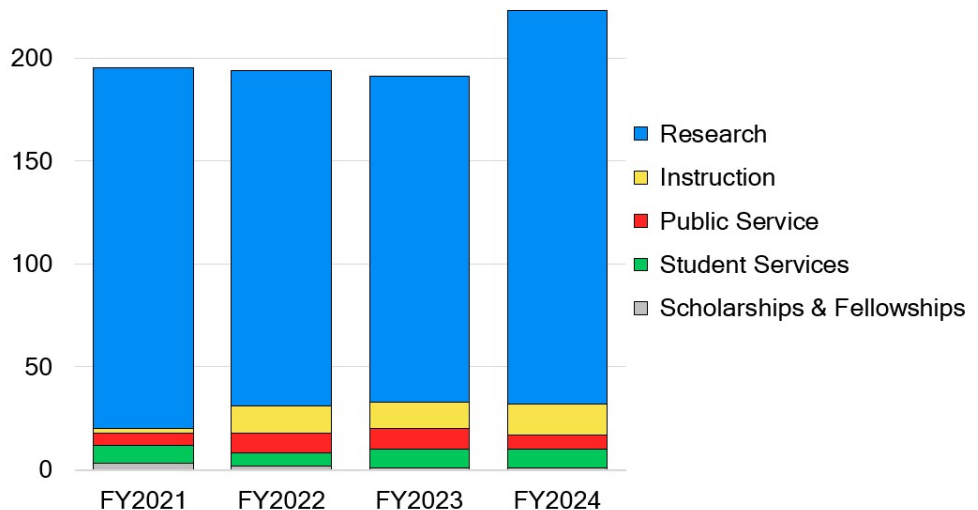
Amounts and Number of Proposals by Purpose

Amount Requested by Purpose

Purpose	FY2021	FY2022	FY2023	FY2024	Total
Research	81,558,410	77,261,328	78,748,388	95,538,256	333,106,382
Instruction	2,295,252	8,168,018	22,750,961	6,280,472	39,494,703
Public Service	710,116	930,977	1,427,348	5,492,594	8,561,035
Student Services	3,720,601	2,671,970	522,429	1,104,675	8,019,675
Scholarships & Fellowships	2,823,144	3,929,401	25,000	30,000	6,807,545
Total	**$91,107,523**	**$92,961,694**	**$103,474,126**	**$108,445,997**	**$395,989,340**
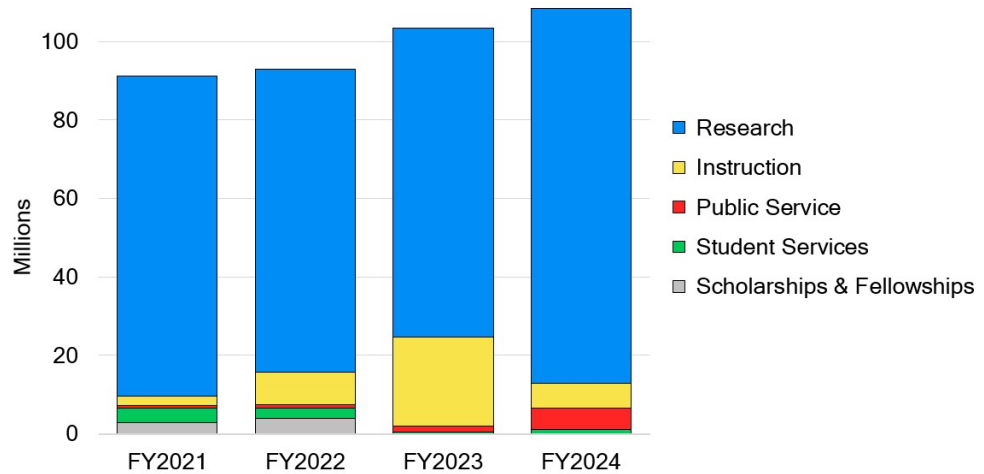
Number of Proposals by Purpose

Purpose	FY2021	FY2022	FY2023	FY2024	Total
Research	175	163	158	191	687
Instruction	2	13	13	15	43
Public Service	6	10	10	7	33
Student Services	9	6	9	9	33
Scholarships and Fellowships	3	2	1	1	7
Total	**195**	**194**	**191**	**223**	**803**

Percentages and Number of Proposals by Purpose

FY2024 Proposal Amount Percentages
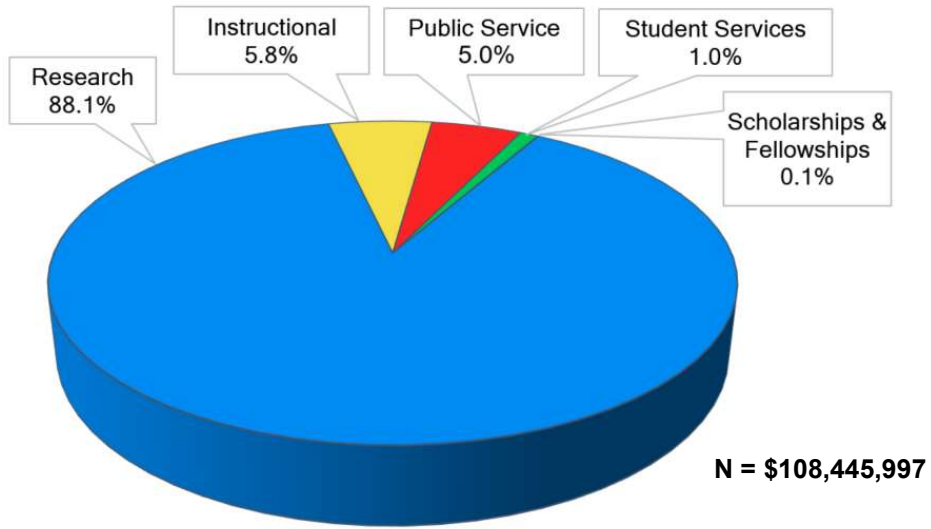
N = $108,445,997

| Purpose	# of Proposals	Total $
Research	191	95,538,256
Instruction	15	6,280,472
Public Service	7	5,492,594
Student Services	9	1,104,675
Scholarships and Fellowships	1	30,000
Total	**223**	**$108,445,997**

FY2024 Number of Proposals Percentage

N = 223
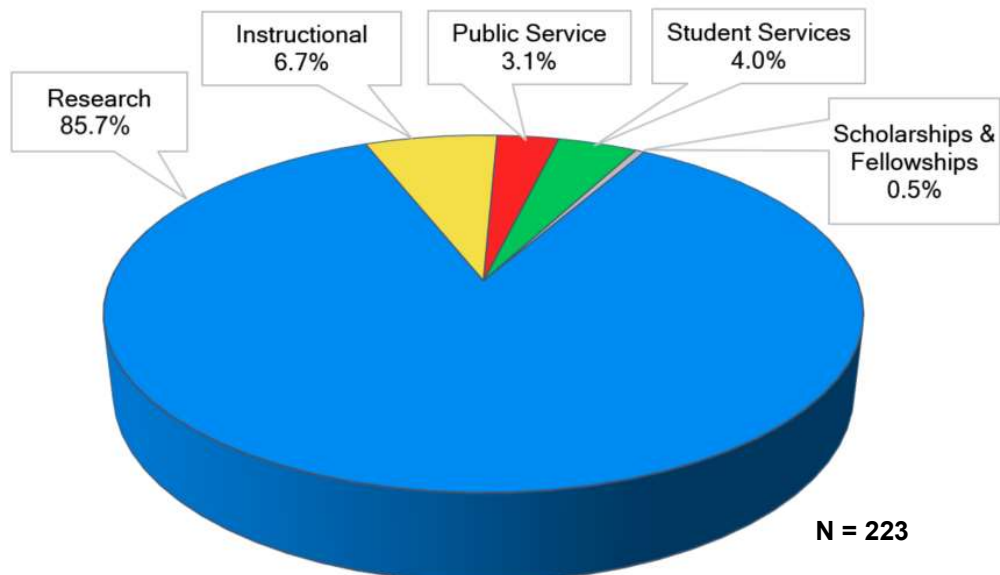
Amounts and Number of Proposals by Source

Amount Requested by Source

Source	FY2021	FY2022	FY2023	FY2024	Total
Federal Government	82,503,027	83,646,923	73,497,582	91,499,219	331,146,751
State/Local Government	4,109,196	1,457,690	578,028	4,215,305	10,360,219
Corporate Sponsors	1,228,299	1,279,133	1,248,857	695,915	4,452,204
Public/Nonprofit Sponsors	3,267,001	6,577,948	28,149,659	12,035,558	50,030,166
Total	**$91,107,523**	**$92,961,694**	**$103,474,126**	**$108,445,997**	**$395,989,340**
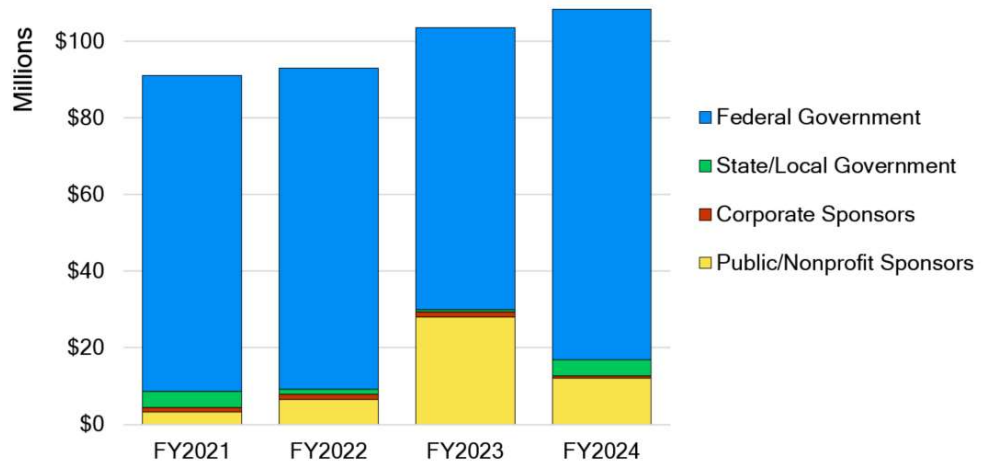
Number of Proposals by Source

Source	FY2021	FY2022	FY2023	FY2024	Total
Federal Government	137	143	117	147	544
State/Local Government	13	15	8	19	55
Corporate Sponsors	13	9	7	8	37
Public/Nonprofit Sponsors	32	27	59	49	167
Total	**195**	**194**	**191**	**223**	**803**
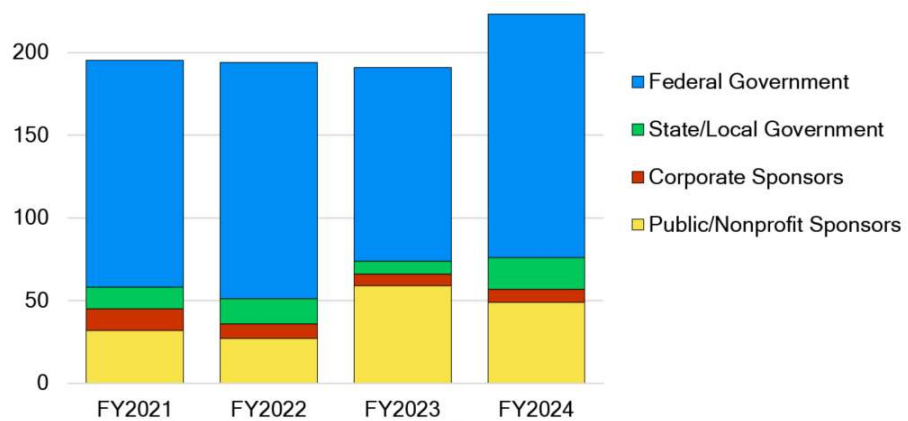
Percentages and Number of Proposals by Source

FY2024 ● Proposal Amount Percentages

State/Local
3.9%

Corporate
0.6%

Federal
84.4%

Public/Non Profit
11.1%
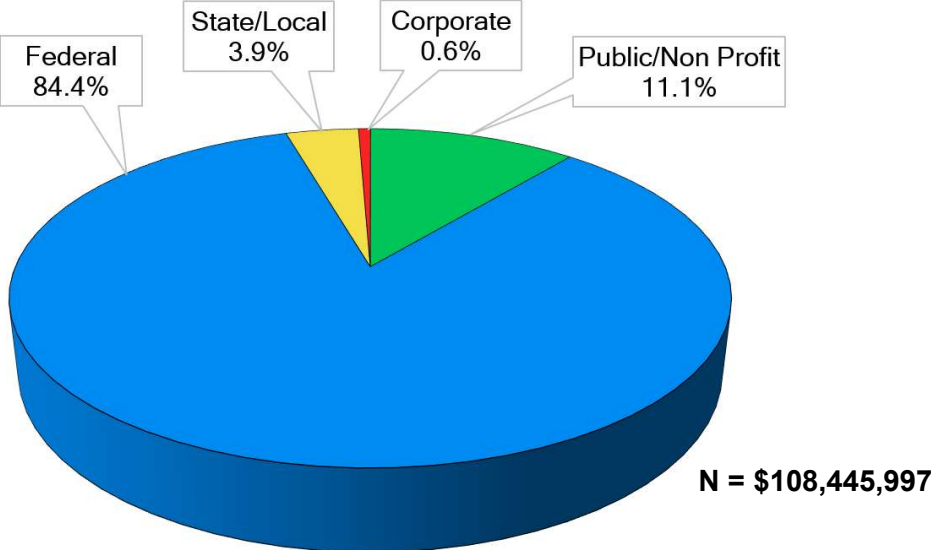
N = $108,445,997

Source	# of Proposals	Total
Federal Government	147	91,499,219
State/Local Government	19	4,215,305
Corporate Sponsors	8	695,915
Public/Nonprofit Sponsors	49	12,035,558
Total	**223**	**$108,445,997**

FY2024 ● Number of Proposals Percentage

State/Local
8.5%

Corporate
3.6%

Federal
65.9%

Public/Non Profit
22.0%

N = 223
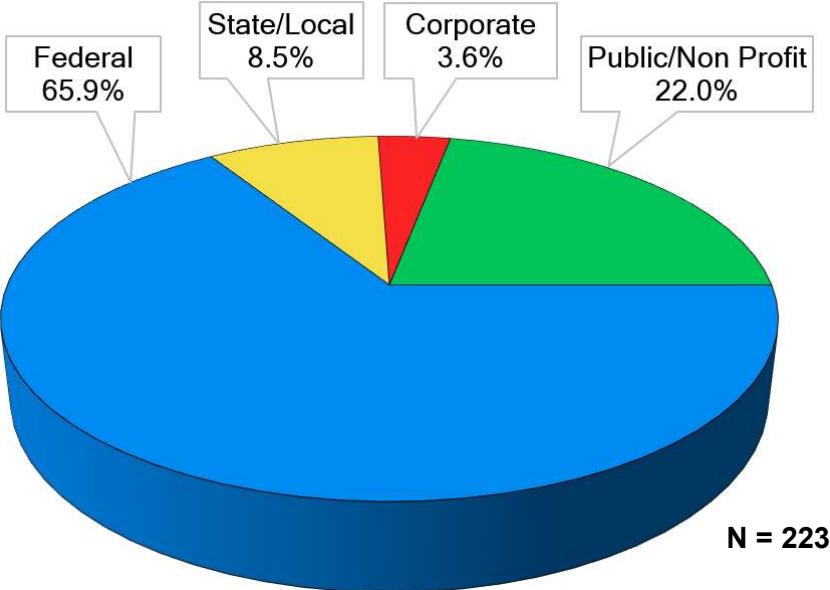
Percentages and Proposal Amounts by Academic Unit

Eye Research Institute 6.8%

Nursing 0.4%

Education and Human Services 7.0%

Health Sciences 8.1%

Medicine 16.8%

Other 2.8%

Arts and Sciences 40.5%

Engineering and Computer Science 17.6%

N = $108,445,997
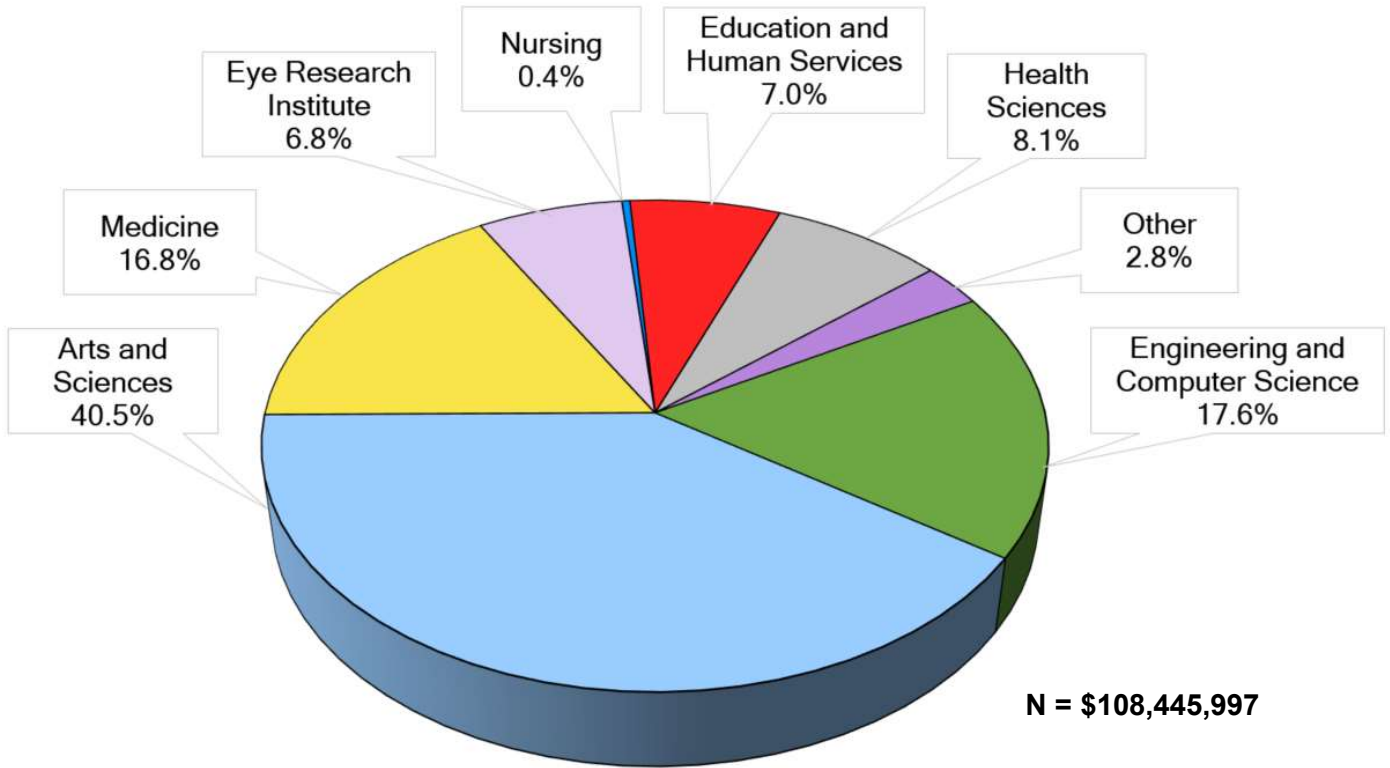
| Academic Unit	FY2021	FY2022	FY2023	FY2024	Total
College of Arts and Sciences	40,830,887	44,405,630	37,226,394	43,882,681	166,345,592
Eye Research Institute	7,134,587	4,166,323	6,392,795	7,361,702	25,055,407
School of Business Administration	56,250	368,320	0	0	424,570
School of Engineering and Computer Science	28,378,947	18,584,449	11,176,660	19,120,719	77,260,775
School of Education and Human Services	3,576,024	4,419,466	2,752,088	7,635,097	18,382,675
School of Health Sciences	2,003,127	2,310,964	1,500,324	8,746,973	14,561,388
School of Medicine	4,241,338	12,058,441	9,374,773	18,199,538	43,874,090
School of Nursing	4,760,880	1,171,322	22,014,939	408,632	28,355,773
Other	125,483	5,476,779	13,036,153	3,090,655	21,729,070
Total	$91,107,523	$92,961,694	$103,474,126	$108,445,997	$395,989,340

Number of Proposals Submitted, FY 2021-2024
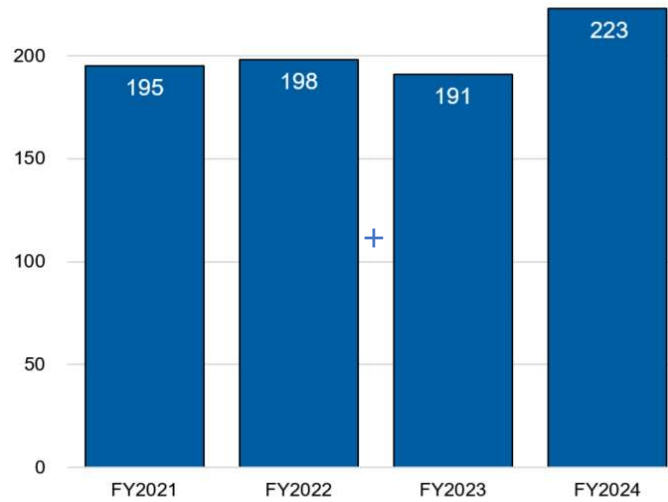
Number of Proposals Submitted by Academic Unit, FY 2021-2024

Academic Unit	FY2021	FY2022	FY2023	FY2024	Grand Total
Arts and Sciences	90	78	82	93	343
Eye Research Institute	5	4	5	4	18
Business Administration	1	1	0	0	2
Engineering and Computer Science	54	65	54	64	237
Education and Human Services	10	10	16	13	49
Health Sciences	13	13	11	16	53
Medicine	11	18	9	19	57
Nursing	9	5	9	6	29
Other	2	4	5	8	19
Grand Total	195	198	191	223	**807**

FY 2024 Proposals Submitted by Academic Unit

N = 223
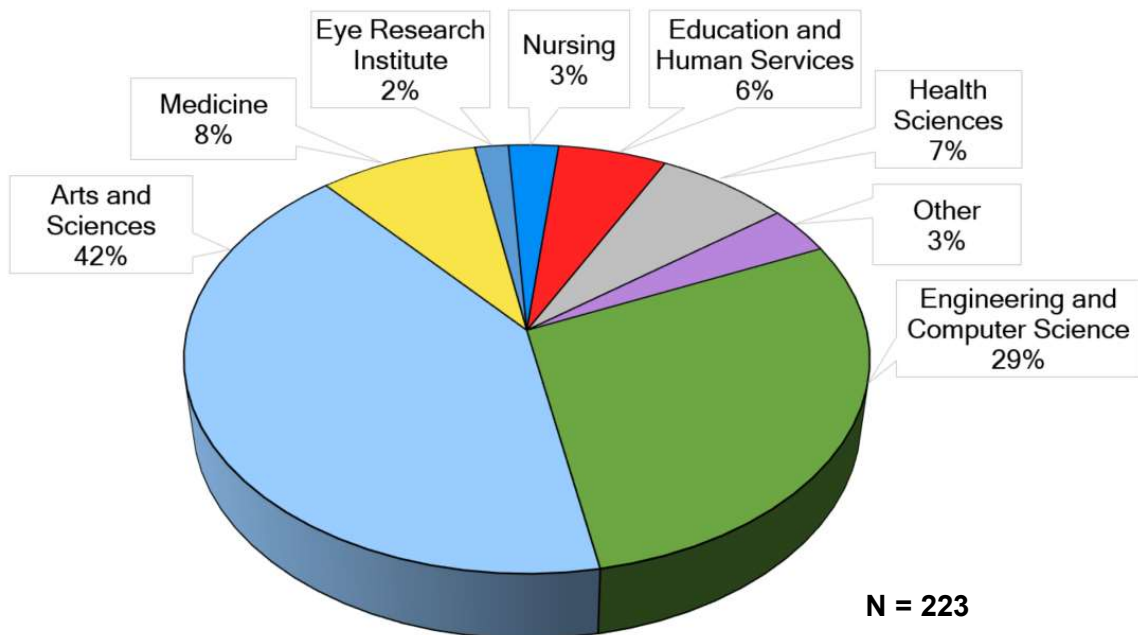
Comparison of FY2023 and FY2024, Proposal Funding Requested by Academic Unit

College of Arts and Sciences	FY2023	FY2024
Art, Art History and Design	0	18,444
Biological Sciences	22,570,874	24,615,911
Chemistry	11,412,899	7,772,886
History	0	750
Mathematics and Statistics	624,091	558,632
Modern Languages and Literatures	0	37,601
Physics	1,264,496	5,944,518
Political Science	0	1,461,772
Psychology	1,014,856	3,139,091
Sociology and Anthropology	314,576	308,474
Writing and Rhetoric	24,602	24,602
CAS Total	**$37,226,394**	**$43,882,681**

Eye Research Institute	FY2023	FY2024
ERI Total	**$6,392,795**	**$7,361,702**

School of Engineering and Computer Science	FY2023	FY2024
Computer Science and Engineering	2,663,754	6,862,509
Electrical and Computer Engineering	6,481,865	5,953,158
Industrial and Systems Engineering	638,389	1,449,402
Mechanical Engineering	1,392,652	4,855,650
SECS Total	**$11,176,660**	**$19,120,719**

School of Education and Human Services	FY2023	FY2024
Human Development and Child Studies	1,749,816	5,435,981
Reading and Language Arts	149,997	0
Teaching and Learning	852,275	2,199,116
SEHS Total	**$2,752,088**	**$7,635,097**

School of Health Sciences	FY2023	FY2024
Human Movement Science	1,000	577,663
Interdisciplinary Health Sciences	1,109,868	1,241,667
Public and Environmental Wellness	389,456	6,927,643
SHS Total	**$1,500,324**	**$8,746,973**

School of Medicine	FY2023	FY2024
SOM Total	**$9,374,773**	**$18,199,538**

School of Nursing	FY2023	FY2024
SON Total	**$22,014,939**	**$408,632**

Other	FY2023	FY2024
Academic Affairs	12,560,986	293,300
Center for Multicultural Initiatives	100,483	681,553
Counseling	0	303,982
Educational Resource Laboratory	0	23,580
Global Engagement	320,684	30,000
International Education		35,000
OU Libraries	4,000	0
Meadow Brook Estate	0	264,005
Research Office	0	1,459,235
Student Affairs and Diversity	50,000	0
Other Total	**$13,036,153**	**$3,090,655**

FY 2024 Proposal Funding Requested by Department by Purpose

College of Arts and Sciences	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
Art and Art History	0	0	18,444	0	0
Biological Sciences	24,114,116	501,795	0	0	0
Chemistry	7,738,326	0	0	34,560	0
History	0	0	750	0	0
Mathematics and Statistics	558,632	0	0	0	0
Modern Languages and Literatures	0	37,601	0	0	0
Physics	5,944,518	0	0	0	0
Political Science	1,308,720	0	153,052	0	0
Psychology	3,139,091	0	0	0	0
Sociology, Anthropology, Social	79,724	228,750	0	0	0
Writing and Rhetoric	0	24,602	0	0	0
CAS Total	**$42,883,127**	**$792,748**	**$172,246**	**$34,560**	**$0**

Eye Research Institute	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
ERI Total	**$7,361,702**	**$0**	**$0**	**$0**	**$0**

School of Engineering and Computer Science	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
Computer Science and Engineering	6,008,277	854,232	0	0	0
Electrical and Computer Engineering	5,675,058	278,100	0	0	0
Industrial and Systems Engineering	1,449,402	0	0	0	0
Mechanical Engineering	4,118,045	737,605	0	0	0
SECS Total	**$17,250,782**	**$1,869,937**	**$0**	**$0**	**$0**

School of Education and Human Services	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
Human Development & Child Studies	2,190,084	3,244,897	0	1,000	0
Teacher and Learning	2,199,116	0	0	0	0
SEHS Total	**$4,389,200**	**$3,244,897**	**$0**	**$1,000**	**$0**

School of Health Sciences	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
Human Movement Science	577,663	0	0	0	0
Interdisciplinary Health Sciences	1,241,667	0	0	0	0
Public and Environmental Wellness	2,980,964	349,571	3,597,108	0	0
SHS Total	**$4,800,294**	**$349,571**	**$3,597,108**	**$0**	**$0**

School of Medicine	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
SOM Total	**$18,176,219**	**$23,319**	**$0**	**$0**	**$0**

School of Nursing	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
SON Total	$383,632	$0	$0	$25,000	$0

Oakland University Total	Research	Instruction	Public Service	Student Services	Scholarships Fellowships
Grand Total	$95,538,256	$6,280,472	$5,492,594	$1,104,675	$30,000

FY 2024 Proposal Funding by Department Requested by Source

FY2024 ● Amount Requested by Source

College of Arts and Sciences	Federal	State/Local	Corporate	Public/Nonprofit
Art and Art History	0	18,444	0	0
Biological Sciences	19,970,179	436,918	6,000	4,202,814
Chemistry	7,409,690	0	202,658	160,538
History	0	750	0	0
Mathematics and Statistics	558,632	0	0	0
Modern Languages and Literatures	0	20,000	0	17,601
Physics	5,944,518	0	0	0
Political Science	1,394,320	47,452		20,000
Psychology	2,744,099	0	0	394,992
Sociology and Anthropology	79,724	228,750	0	0
Writing and Rhetoric	0	24,602	0	0
CAS Total	**38,101,162**	**776,916**	**208,658**	**4,795,945**

Eye Research Institute	Federal	State/Local	Corporate	Public/Nonprofit
ERI Total	**$6,927,970**	**$0**	**$0**	**$433,732**

School of Engineering and Computer Science	Federal	State/Local	Corporate	Public/Nonprofit
Computer Science and Engineering	6,766,600	90,909	0	5,000
Electrical and Computer Engineering	5,536,321	411,837	0	5,000
Industrial and Systems Engineering	1,111,599	0	337,803	0
Mechanical Engineering	3,846,625	787,605	0	221,420
SECS Total	**$17,261,145**	**$1,290,351**	**$337,803**	**$231,420**

School of Education and Human Services	Federal	State/Local	Corporate	Public/Nonprofit
Human Development & Child Studies	4,508,023	7,250	0	920,708
Reading and Language Arts	0	0	0	0
Teaching and Learning	1,511,178	0	0	687,938
SEHS Total	**$6,019,201**	**$7,250**	**$**	**$1,608,646**

School of Health Sciences	Federal	State/Local	Corporate	Public/Nonprofit
Human Movement Science	166,164	0	0	411,499
Interdisciplinary Health Sciences	351,562	0	0	890,105
Public and Environmental Wellness	4,036,387	0	149,454	2,741,802
SHS Total	**$4,554,113**	**$0**	**$149,454**	**$4,043,406**

School of Medicine	Federal	State/Local	Corporate	Public/ Nonprofit
SOM Total	$17,576,214	$0	$0	$623,324

School of Nursing	Federal	State/Local	Corporate	Public/ Nonprofit
SON Total	$133,127	$	$	$275,505

Other	Federal	State/Local	Corporate	Public/ Nonprofit
Academic Affairs	293,300	0	0	0
Center for Multicultural Initiatives	0	681,553	0	0
Counseling	303,982	0	0	0
Educational Resource Laboratory	0	0	0	23,580
Global Engagement	30,000	0	0	0
International Education	35,000	0	0	0
Meadow Brook Estate	264,005	0	0	0
Research Office	0	1,459,235	0	0
Other Total	$926,287	$2,140,788	$0	$23,580

Oakland University Total	Federal	State/Local	Corporate	Public/ Nonprofit
Grand Total	$91,499,219	$4,215,305	$695,915	$12,035,558

Researcher of the Year Award
Dr. Taras Oleksyk
Department of Biological Sciences, CAS

Most Active Research Award
Dr. Wing-Yue Geoffrey Louie
Department of Electrical and Computer Engineering, SECS

Xiangqun Zeng Most Active Grant Seeker Award
Dr. Jun Chen
Department of Electrical and Computer Engineering, SECS

Dr. Randy Westrick
Department of Biological Sciences, CAS

Outstanding Junior Investigator Award
Dr. Wing-Yue Geoffrey Louie
Department of Electrical and Computer Engineering, SECS

Outstanding Research Department Award
Department of Biological Sciences, CAS

Research-Led Teaching Award
Dr. Caress Dean
Department of Public and Environmental Wellness, SHS

Research Office

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