

Cleveland State University

Office of Research

Forrest Faison M.D., Sc.D.

YEAR-TO-DATE SUMMARY COMPARISON

July 1, 2020 - June 30, 2021

and

July 1, 2019 - June 30, 2020

Awards

	Dollars				Numbers	
	Direct	Indirect	Total	% Change (Total)		% Change
2020-2021	\$ 21,684,377	\$ 4,218,969	\$ 25,903,346	43.5%	127	1.6%
2019-2020	\$ 14,923,970	\$ 3,126,735	\$ 18,050,705		125	

Proposals

	Dollars				Numbers	
	Direct	Indirect	Total	% Change (Total)		% Change
2020-2021	\$ 90,479,936	\$ 16,931,012	\$ 107,410,948	45.9%	214	-16.4%
2019-2020	\$ 56,588,727	\$ 17,034,412	\$ 73,623,139		256	

Expenditures

	Dollars			
	Direct	Indirect	Total	% Change (Total)
2020-2021	\$ 13,504,005	\$ 2,267,332	\$ 15,771,337	6.5%
2019-2020	\$ 12,769,290	\$ 2,035,053	\$ 14,804,343	

Awards *Includes Total Project Award Amount*

Monthly Comparison

	Fiscal Year 2021			Fiscal Year 2020		
	Direct	Indirect	Total	Direct	Indirect	Total
July	\$ 1,725,040	\$ 145,707	\$ 1,870,747	\$ 339,650	\$ 60,736	\$ 400,386
August	\$ 5,738,707	\$ 1,353,198	\$ 7,091,905	\$ 459,614	\$ 138,507	\$ 598,121
September	\$ 1,410,342	\$ 267,909	\$ 1,678,251	\$ 2,822,290	\$ 230,809	\$ 3,053,099
October	\$ 572,525	\$ 137,652	\$ 710,177	\$ 505,425	\$ 119,740	\$ 625,165
November	\$ 602,671	\$ 144,900	\$ 747,571	\$ 1,129,223	\$ 329,811	\$ 1,459,034
December	\$ 1,902,235	\$ 730,514	\$ 2,632,749	\$ 420,893	\$ 52,298	\$ 473,191
January	\$ 1,975,952	\$ 411,425	\$ 2,387,377	\$ 2,826,941	\$ 660,387	\$ 3,487,328
February	\$ 26,000	\$ -	\$ 26,000	\$ 263,717	\$ 51,918	\$ 315,635
March	\$ 933,876	\$ 204,570	\$ 1,138,446	\$ 2,820,439	\$ 698,162	\$ 3,518,601
April	\$ 4,242,541	\$ 107,101	\$ 4,349,642	\$ 886,862	\$ 173,053	\$ 1,059,915
May	\$ 1,220,275	\$ 376,619	\$ 1,596,894	\$ 588,274	\$ 16,006	\$ 604,280
June	\$ 1,334,213	\$ 339,374	\$ 1,673,587	\$ 1,860,642	\$ 595,308	\$ 2,455,950
Totals						
June	\$ 21,684,377	\$ 4,218,969	\$ 25,903,346	\$ 14,923,970	\$ 3,126,735	\$ 18,050,705
Fiscal Year	\$ 21,684,377	\$ 4,218,969	\$ 25,903,346	\$ 14,923,970	\$ 3,126,735	\$ 18,050,705

Cleveland State University

Office of Research

Forrest Faison M.D., Sc.D.

Proposals

Monthly Comparison

	Fiscal Year 2021			Fiscal Year 2020		
	Direct	Indirect	Total	Direct	Indirect	Total
July	\$ 1,944,933	\$ 630,073	\$ 2,575,006	\$ 3,168,562	\$ 1,052,828	\$ 4,221,390
August	\$ 3,235,493	\$ 958,883	\$ 4,194,376	\$ 4,266,380	\$ 1,012,096	\$ 5,278,476
September	\$ 2,782,402	\$ 1,133,170	\$ 3,915,572	\$ 4,420,108	\$ 1,281,650	\$ 5,701,758
October	\$ 4,896,774	\$ 1,992,246	\$ 6,889,020	\$ 14,857,699	\$ 4,566,774	\$ 19,424,473
November	\$ 6,539,378	\$ 1,929,444	\$ 8,468,822	\$ 1,977,317	\$ 429,546	\$ 2,406,863
December	\$ 2,987,189	\$ 360,388	\$ 3,347,577	\$ 1,753,945	\$ 327,508	\$ 2,081,453
January	\$ 23,444,014	\$ 2,667,181	\$ 26,111,195	\$ 4,663,288	\$ 1,120,259	\$ 5,783,547
February	\$ 7,097,559	\$ 2,229,688	\$ 9,327,247	\$ 7,621,335	\$ 2,766,414	\$ 10,387,749
March	\$ 7,943,327	\$ 3,214,426	\$ 11,157,753	\$ 4,890,390	\$ 1,288,989	\$ 6,179,379
April	\$ 4,120,962	\$ 284,519	\$ 4,405,481	\$ 2,176,946	\$ 844,787	\$ 3,021,733
May	\$ 2,938,241	\$ 827,271	\$ 3,765,512	\$ 2,314,692	\$ 349,284	\$ 2,663,976
June	\$ 22,549,664	\$ 703,723	\$ 23,253,387	\$ 4,478,065	\$ 1,994,277	\$ 6,472,342
Totals						
June	\$ 90,479,936	\$ 16,931,012	\$ 107,410,948	\$ 56,588,727	\$ 17,034,412	\$ 73,623,139
Fiscal Year	\$ 90,479,936	\$ 16,931,012	\$ 107,410,948	\$ 56,588,727	\$ 17,034,412	\$ 73,623,139

Expenditures

Monthly Comparison

	Fiscal Year 2021			Fiscal Year 2020		
	Direct	Indirect	Total	Direct	Indirect	Total
July	\$ 954,093	\$ 277,420	\$ 1,231,513	\$ 1,071,893	\$ 267,524	\$ 1,339,417
August	\$ 1,661,856	\$ 175,208	\$ 1,837,064	\$ 1,926,965	\$ 220,217	\$ 2,147,182
September	\$ 1,145,997	\$ 189,361	\$ 1,335,358	\$ 724,482	\$ 135,301	\$ 859,783
October	\$ 770,952	\$ 110,857	\$ 881,809	\$ 739,182	\$ 142,688	\$ 881,870
November	\$ 772,861	\$ 109,314	\$ 882,175	\$ 775,021	\$ 124,180	\$ 899,201
December	\$ 1,186,599	\$ 156,423	\$ 1,343,022	\$ 936,329	\$ 165,669	\$ 1,101,998
January	\$ 1,362,615	\$ 129,707	\$ 1,492,322	\$ 1,444,714	\$ 94,656	\$ 1,539,370
February	\$ 760,572	\$ 154,302	\$ 914,874	\$ 1,098,608	\$ 178,706	\$ 1,277,314
March	\$ 1,081,772	\$ 149,242	\$ 1,231,014	\$ 921,944	\$ 121,999	\$ 1,043,943
April	\$ 702,556	\$ 127,357	\$ 829,913	\$ 840,716	\$ 109,936	\$ 950,652
May	\$ 1,274,008	\$ 234,977	\$ 1,508,985	\$ 998,132	\$ 159,526	\$ 1,157,658
June	\$ 1,830,124	\$ 453,164	\$ 2,283,288	\$ 1,291,304	\$ 314,652	\$ 1,605,956
Totals						
June	\$ 13,504,005	\$ 2,267,332	\$ 15,771,337	\$ 12,769,290	\$ 2,035,053	\$ 14,804,343
CSU Fiscal Year	\$ 13,504,005	\$ 2,267,332	\$ 15,771,337	\$ 12,769,290	\$ 2,035,053	\$ 14,804,343
CCF Fiscal Year*			\$ -			
Grand Total	\$ 13,504,005	\$ 2,267,332	\$ 15,771,337	\$ 12,769,290	\$ 2,035,053	\$ 14,804,343

**CCF Expenditures will be updated when available.

Cleveland State University

Office of Research

Forrest Faison M.D., Sc.D.

YEAR-TO-DATE SUMMARY COMPARISON - AWARDS

July 1, 2020 - June 30, 2021

and

July 1, 2019 - June 30, 2020

College/Division

Awards *Includes Total Project Award Amount*

College/Division	Fiscal Year 2021				Fiscal Year 2020			
	Direct	Indirect	Total	Count	Direct	Indirect	Total	Count
College of Business Administration	\$ 533,638	\$ 25,673	\$ 559,311	5	\$ 317,309	\$ -	\$ 317,309	7
College of Education & Human Services	\$ 1,992,157	\$ 668,009	\$ 2,660,166	9	\$ 2,080,470	\$ 453,040	\$ 2,533,507	13
College of Engineering	\$ 8,885,016	\$ 1,421,808	\$ 10,306,824	41	\$ 2,127,826	\$ 603,169	\$ 2,730,994	20
College of Law	\$ 200,000	\$ -	\$ 200,000	1	\$ 170,800	\$ -	\$ 170,800	3
College of Liberal Arts & Social Sciences	\$ 338,464	\$ 104,389	\$ 442,853	14	\$ 571,517	\$ 85,918	\$ 657,435	14
School of Nursing	\$ 309,325	\$ 13,866	\$ 323,191	6	\$ 182,930	\$ 11,714	\$ 194,644	5
College of Sciences & Health Professions	\$ 4,318,643	\$ 1,434,069	\$ 5,752,712	23	\$ 3,539,174	\$ 1,420,708	\$ 4,959,882	20
College of Urban Affairs	\$ 1,548,586	\$ 303,419	\$ 1,852,005	15	\$ 3,000,011	\$ 458,941	\$ 3,458,952	26
Central Administration	\$ 3,558,548	\$ 247,736	\$ 3,806,284	13	\$ 2,933,933	\$ 93,245	\$ 3,027,178	17
June Totals	\$ 21,684,377	\$ 4,218,969	\$ 25,903,346	127	\$ 14,923,970	\$ 3,126,735	\$ 18,050,701	125

Cleveland State University

Office of Research

Forrest Faison M.D., Sc.D.

YEAR-TO-DATE SUMMARY COMPARISON - PROPOSALS

July 1, 2020 - June 30, 2021

and

July 1, 2019 - June 30, 2020

College/Division Proposals

	Fiscal Year 2021				Fiscal Year 2020			
	Direct	Indirect	Total	Count	Direct	Indirect	Total	Count
College of Business Administration	\$ 422,104	\$ 2,241	\$ 424,345	7	\$ 531,971	\$ 22,466	\$ 554,437	7
College of Education & Human Services	\$ 5,352,870	\$ 693,896	\$ 6,046,766	18	\$ 4,196,131	\$ 1,369,810	\$ 5,565,941	18
College of Engineering	\$ 31,426,245	\$ 5,725,189	\$ 37,151,434	68	\$ 17,466,141	\$ 4,144,382	\$ 21,610,523	64
College of Law	\$ 3,106,437	\$ 792,004	\$ 3,898,441	2	\$ 370,800	\$ -	\$ 370,800	4
College of Liberal Arts & Social Sciences	\$ 2,333,169	\$ 241,759	\$ 2,574,928	23	\$ 2,464,615	\$ 929,597	\$ 3,394,212	24
School of Nursing	\$ 253,113	\$ 8,131	\$ 261,244	5	\$ 1,694,647	\$ 772,201	\$ 2,466,848	5
College of Sciences & Health Professions	\$ 22,744,510	\$ 8,822,515	\$ 31,567,025	55	\$ 20,448,758	\$ 8,151,409	\$ 28,600,167	69
College of Urban Affairs	\$ 2,456,338	\$ 596,310	\$ 3,052,648	22	\$ 4,447,070	\$ 1,015,232	\$ 5,462,302	40
Central Administration	\$ 22,385,150	\$ 48,967	\$ 22,434,117	14	\$ 4,968,594	\$ 629,315	\$ 5,597,909	25
June Totals	\$ 90,479,936	\$ 16,931,012	\$ 107,410,948	214	\$ 56,588,727	\$ 17,034,412	\$ 73,623,139	256

Cleveland State University

Office of Research

Forrest Faison M.D., Sc.D.

YEAR-TO-DATE SUMMARY COMPARISON - EXPENDITURES

July 1, 2020 - June 30, 2021

and

July 1, 2019 - June 30, 2020

College/Division Expenditures

	Fiscal Year 2021			Fiscal Year 2020		
	Direct	Indirect	Total	Direct	Indirect	Total
College of Business Administration	\$ 440,546	\$ 11,689	\$ 452,235	\$ 291,202	\$ -	\$ 291,202
College of Education & Human Services	\$ 856,482	\$ 70,964	\$ 927,446	\$ 705,007	\$ 43,601	\$ 748,608
College of Engineering	\$ 2,083,197	\$ 492,219	\$ 2,575,416	\$ 1,799,089	\$ 554,006	\$ 2,353,094
College of Law	\$ 168,181	\$ -	\$ 168,181	\$ 57,576	\$ -	\$ 57,576
College of Liberal Arts & Social Sciences	\$ 482,724	\$ 107,459	\$ 590,183	\$ 326,346	\$ 64,198	\$ 390,543
School of Nursing	\$ 284,233	\$ 14,000	\$ 298,233	\$ 200,509	\$ 12,384	\$ 212,893
College of Sciences & Health Professions	\$ 3,188,267	\$ 1,068,647	\$ 4,256,914	\$ 2,879,628	\$ 888,250	\$ 3,767,878
College of Urban Affairs	\$ 1,544,720	\$ 263,425	\$ 1,808,145	\$ 1,260,748	\$ 162,368	\$ 1,423,116
Central Administration	\$ 4,455,655	\$ 238,929	\$ 4,694,584	\$ 5,249,184	\$ 310,248	\$ 5,559,432
June Totals	\$ 13,504,005	\$ 2,267,332	\$ 15,771,337	\$ 12,769,290	\$ 2,035,053	\$ 14,804,343

Amount	Sponsor	Title	Principal Investigator
CENTRAL ADMINISTRATION			
University Engagement			
\$290,000	Ohio Department of Job and Family Services	Aging out of Foster Care	Ronnie Dunn
ENGINEERING			
Chemical & Biomedical			
\$353,902	National Science Foundation	Establishing Liquid Crystals of Boron Nitride Nanotubes for Aligned Assemblies	Geyou Ao
Civil			
\$50,000	National Science Foundation	Ultrasound-Activated Shape Memory Lengthening Device	Josiah Owusu-Danquah
Electrical & Computer			
\$49,954	Ford Motor Company	Automotive Systems Optimization	Mehdi Rahmati
Human Machines			
\$12,500	Ohio State University (Ohio Department of Higher Education)	Wearable Motion Capture Compression Sleeve	Antonie van den Bogert
Mechanical			
\$70,000	National Science Foundation	CAREER: Flow Physics of Transient Rooftop Vortices at High Reynolds Numbers and Bio-Inspired Flow Control Strategies to Mitigate Wind Hazards	Wei Zhang
\$56,739	Air Force Office of Scientific Research	Fundamentals of Strengthening Mechanisms in Carbon Nanotube (CNT)/ Graphene Nanoplatelet (GNP) Reinforced Metal Matrix Composites for Aerospace Structural Applications	Tushar Borkar
\$16,300	Ohio Space Grant Consortium	Ohio Space Grant Consortium Internship (Spring 2021)	Wei Zhang
LIBERAL ARTS & SOCIAL SCIENCES			
Music			
\$5,000	Nord Family Foundation	2021 CAEC Work to Serve Members and the Community	Judith Ryder Frumker
\$2,000	Fowler Family Foundation	CAEC's Work for Members and Community	Judith Ryder Frumker
Sociology			
\$6,192	University of California, San Francisco	A Multi-Methods Study of Barriers and Facilitators of Compassionate Release During COVID-19	Meghan Novisky
NURSING			
Nursing			
\$41,250	Cuyahoga County Board of Health (US Department of Health and Human Services)	Ending the HIV Epidemic - CSU CHW Partnership	Joan Thoman
SCIENCES & HEALTH PROFESSIONS			
Bio, Geo, Environ			
\$50,000	Cooley's Anemia Foundation	Cooley Anemia	Nithya Gnanapragasam
Gene Regulation in Health & Disease			
\$445,500	National Institutes of Health	Positive and negative regulation of REC-8 cohesin during meiosis	Aaron Severson
\$74,250	National Institutes of Health	Identify 70 bp repeat-associated chromatin components by End-targeting Proteomics of Isolated Chromatin segments (PICh) and initiate their functional characterization	bibo Li
\$50,000	Cooley's Anemia Foundation	Investigating the role of ATRX mediated subtelomere cohesion on β -globin expression in ATRX syndrome	Mahesh Ramamoorthy

Amount	Sponsor	Title	Principal Investigator
URBAN			
Research & Public Policy			
\$100,000	JobsOhio	Shale Investment Dashboard FY2020	Andrew Thomas

Note: The Total Dollars of Awards in this report may differ from the totals contained in the Summary Comparison Section. This is due to the effect of cumulative transactions which cross reporting time periods.

**Cleveland State University
Office of Sponsored Programs and Research**

**Sponsored Programs and Research Award Activity Detail
July 1, 2020 through June 30, 2021**

Supplement to June 2021 Monthly Activity Report

Amount	Sponsor	Title	Principal Investigator
BUSINESS			
Dean's Office			
\$271,400	Ohio Development Services Agency	SBDC COVID-19 Supplemental Funds	Colette Hart
\$184,291	U.S. Small Business Administration- Development Services Agency	Small Business Development Center - Cleveland State University	Colette Hart
\$82,620	State of Ohio, Development Services Agency	State - SBDC - ODSA funds	Colette Hart
\$11,000	Ohio Development Services Agency	SBDC COVID-19 Supplemental Funds	Colette Hart
\$10,000	Ohio Development Services Agency	Ohio Export Internship Program	Colette Hart
CENTRAL ADMINISTRATION			
Academic Programs			
\$5,000	U.S. Department of Higher Education (Ohio Department of Higher Education)	Ohio Strong Start to Finish-Data	John Holcomb
EEMS			
\$3,095,200	U.S. Department of Education	TRIO Student Support Services	Marina Bregu
Library			
\$4,999	State Library of Ohio	Bill Wynne's Photographs: Reuniting a Photographer's Work Through the DPLA	Marsha Miles
Research Office			
\$213,888	Cuyahoga Community College (Ohio Department of Higher Education)	Northeast Ohio West RAPIDS: Agile Workers for an Agile Workplace	Benjamin Ward
\$49,973	Ford Motor Company	Automotive Systems Optimization	Daniel Simon
Student Affairs			
\$31,452	Ohio College Initiative	Building Student Mental Health and Wellness Management with Digital and Hybrid Wellness Coaching	Denise Keary
\$5,000	Ohio State University	Impaired Driving Prevention Pilot Program	Denise Keary
University Engagement			
\$290,000	Ohio Department of Job and Family Services	Aging out of Foster Care	Ronnie Dunn
\$47,300	City of Cleveland Heights	Cleveland Heights Police Department Training	Ronnie Dunn
\$24,000	University Circle, Inc.	University Circle Police Consultancy	Ronnie Dunn
\$20,000	400 Years of African American History Commission	400 Years: Our Shared Experience	Ronnie Dunn
\$12,500	Ohio State University (Ohio Department of Higher Education)	I-Corp 2020 Cohort	Jessica Colombi
\$6,972	Children's Museum Cleveland	Growing Together: an Anti-Racism Toolkit Program for Families	Mittie Jones
EDUCATION & HUMAN SERVICES			
CASAL			
\$34,201	Association of Public and Land-grant Universities (National Science Foundation)	I-Change	Julia Phillips
\$29,093	Case Western Reserve University (City of Cleveland)	NRRC Standards, Assessment and Leadership Evaluation	Dakota King-White

Amount	Sponsor	Title	Principal Investigator
Center for STEMM Education			
\$25,000	Battelle	Northeast Ohio Regional STEM Hub Investment & Embed Support	Debbie Jackson
Dean's Office			
\$147,300	Cleveland Foundation	Cleveland Foundation Teaching Fellows Program - Year 6	Sajit Zachariah
\$126,000	Cleveland Metropolitan School District	Teaching Fellows	Sajit Zachariah
\$94,500	Cleveland Metropolitan School District	Teaching Fellows	Sajit Zachariah
\$24,500	Thomas White Foundation	Early STEM Learning	Sharon Brown
Teacher Education			
\$1,999,997	National Science Foundation	The Cleveland Tech Talent Pipeline (CLE TTP)	Debbie Jackson
\$179,575	Cleveland Foundation	Computer Science for ALL in the Cleveland Metropolitan School District	Debbie Jackson
ENGINEERING			
Chemical & Biomedical			
\$2,631,594	Ohio Department of Higher Education	Choose Ohio First - Continuation of 16.15 Viking Leaders of Tomorrow	Nolan Holland
\$1,071,200	Ohio Department of Higher Education	Choose Ohio First - Viking Workforce of Tomorrow	Nolan Holland
\$703,081	Cincinnati Children's Hospital Medical Center (National Institutes of Health)	Modeling diabetes using an integrated plate system	Moo-Yeal Lee
\$353,902	National Science Foundation	Establishing Liquid Crystals of Boron Nitride Nanotubes for Aligned Assemblies	Geyou Ao
\$299,990	National Science Foundation	Collaborative Proposal: Glial scar morphology informed tunable biomimetic platforms for spinal cord injury repair	Chandrasekhar Kothapalli
\$199,467	Cuyahoga Community College (National Institutes of Health)	Bridges to the Baccalaureate Research Training Program at Cuyahoga Community College	Jorge Gatica
\$105,000	Bioprinting Laboratories, Inc (National Institutes of Health)	Pillar and perfusion well plate platforms for reproducible organoid culture from Ipsc	Moo-Yeal Lee
Civil			
\$50,000	National Science Foundation	Ultrasound-Activated Shape Memory Lengthening Device	Josiah Owusu-Danquah
\$5,000	Rockport Ready Mix	Improving Sustainability of Ultra-High Performance Concrete Using Local Materials	Srinivas Allena
Dean's Office			
\$149,413	Fenn Education Fund (Cleveland Foundation)	Preparing Engineering Students during changing times of the Coronavirus, COVID-19	Sandra English
\$75,000	Innovative Scientific Solutions, Inc.(NIH)	Detecting Arch Instability in Charcot Neuropathy	Brian Davis
Electrical & Computer			
\$1,335,659	Case Western Reserve University (Cleveland Foundation)	Cleveland IoT Collaborative - Phase III	Nigamanth Sridhar
\$397,826	National Science Foundation	SaTC:EDU: Transdisciplinary Cybersecurity Education for Law and Engineering Students	Chansu Yu
\$49,954	Ford Motor Company	Automotive Systems Optimization	Mehdi Rahmati
\$48,627	Old Dominion University (National Academy of Sciences)	NCHRP Highway IDEA proposal	Hongkai Yu
\$40,000	Youngstown State University (Air Force Office of Scientific Research)	Assured Digital Microelectronics Education & Training Eco System	Lili Dong

Amount	Sponsor	Title	Principal Investigator
\$5,000	Ohio Space Grant Consortium	Developing an Individualized, Integrative, and Progressive Electronics Laboratory Course	Chansu Yu
\$2,500	University of Akron (National Science Foundation)	Type II: The University of Akron I-Corps Site - Extendable Bone Plate	Josiah Owusu-Danquah
\$2,500	University of Akron (National Science Foundation)	Peer Life Coach	Wenbing Zhao
Human Machines			
\$12,500	Ohio State University (Ohio Department of Higher Education)	Wearable Motion Capture Compression Sleeve	Antonie van den Bogert
Mechanical			
\$699,399	Advanced Technology International	Evaluation of Oxidation-Resistant Coatings on Forging Billets	Tushar Borkar
\$599,998	US Economic Development Agency (US Department of Commerce)	Entrepreneurial Manufacturer Digitization Support (EMDiS) Center of Excellence	Jerzy Sawicki
\$450,021	National Science Foundation	REU Site: RE@CSU -- Rehabilitation Engineering at Cleveland State University	Eric Schearer
\$305,986	National Science Foundation	Assistive Robotics and Functional Electrical Stimulation: A Synergistic Combination to Reanimate Paralyzed Arms	Eric Schearer
\$256,905	Paragon Robotics(Department of Energy)	Advanced District Energy Controls for Improved Efficiency and Resilience	Yong Tao
\$70,000	National Science Foundation	CAREER: Flow Physics of Transient Rooftop Vortices at High Reynolds Numbers and Bio-Inspired Flow Control Strategies to Mitigate Wind Hazards	Wei Zhang
\$56,739	Air Force Office of Scientific Research	Fundamentals of Strengthening Mechanisms in Carbon Nanotube (CNT)/ Graphene Nanoplatelet (GNP) Reinforced Metal Matrix Composites for Aerospace Structural Applications	Tushar Borkar
\$56,445	Washington State University (National Institutes of Health)	Reproducibility in simulation-based prediction of natural knee mechanics	Antonie van den Bogert
\$50,000	National Science Foundation	I-Corps: Next Generation Composite-based Interbody Cages for Spinal Fusion	Prabaha Sikder
\$49,896	American Syringomyelia & Chiari Alliance Project, Inc	Quantifying Gait Postural Control in Chiari Patients	Brian Davis
\$47,200	Ohio Space Grant Consortium	OSGC Summer Internship 2020-21	Wei Zhang
\$27,000	Ohio Space Grant Consortium	State of Ohio Scholarships and Fellowship (OSGC AY 2020-2021)	Wei Zhang
\$24,500	Ohio Space Grant Consortium	Ohio Space Grant Consortium STEM Scholarship and Fellowship	Wei Zhang
\$22,717	Washington State University (National Institutes of Health)	Reproducibility in simulation-based prediction of natural knee mechanics	Antonie van den Bogert
\$16,300	Ohio Space Grant Consortium	Ohio Space Grant Consortium Internship (Spring 2021)	Wei Zhang
\$13,040	Ohio Space Grant Consortium	Ohio Space Grant Consortium Internship (Spring 2021)	Wei Zhang
\$9,967	Forging Industry Educational and Research Foundation	Investigating the effect of processing parameters on microstructure and mechanical behavior of 316 SS fabricated via binder jet followed by forging	Tushar Borkar
\$5,000	Ohio Space Grant Consortium	Flow Physics of Transient Rooftop Vortices at High Reynolds Numbers to Mitigate Wind Hazards	Wei Zhang
\$2,500	University of Akron (National Science Foundation)	Electroactive and Live Muscle Construct	Prabaha Sikder
\$2,500	University of Akron I-Corps (National Science Foundation)	New Metallic Materials in Energy Applications (W20-005)	Tushar Borkar
\$2,500	University of Akron (National Science Foundation)	Type II: The University of Akron I-Corps Site - Walktive/ Walking Aids with Compliant Support	Hanz Richter

Amount	Sponsor	Title	Principal Investigator
LAW			
Dean's Office			
\$200,000	City of Cleveland	Day 1 Project - City of Cleveland	Jonathan Witmer-Rich
LIBERAL ARTS & SOCIAL SCIENCES			
Art			
\$60,000	National Endowment for the Humanities	Fellowship	Samantha Baskind
\$10,605	Ohio Arts Council	Art Gallery - OAC 20-21	Kendall Christian
Dean's Office			
\$8,275	Ohio State University Drug Enforcement and Policy Center	Examination of Drugs Courts and Court-Ordered Treatment for Substance Use	Miyuki Tedor
\$2,500	Kulas Foundation	Kulas Student Ticket Program	Allyson Robichaud
History			
\$79,510	National Endowment for the Humanities	PlacePress: A WordPress Plugin for Publishing Location-based Tours and Stories	J. Mark Souther
Music			
\$15,000	Cleveland Foundation	Cleveland Foundation - 2021	Judith Ryder Frumker
\$10,000	George Gund Foundation	Gund for CAEC General Operating	Judith Ryder Frumker
\$5,000	Nord Family Foundation	2021 CAEC Work to Serve Members and the Community	Judith Ryder Frumker
\$2,728	Ohio Arts Council	CAEC Ohio Arts Council 2020-21	Judith Ryder Frumker
\$2,000	Cyrus Eaton Foundation	CAEC Cyrus Eaton for 2020-21	Judith Ryder Frumker
\$2,000	Fowler Family Foundation	CAEC's Work for Members and Community	Judith Ryder Frumker
Social Work			
\$5,000	Social Science Research Council	Addressing African American Infant Mortality Using Technology During the COVID-19 Crisis	Cyleste Collins
Sociology			
\$234,043	Cuyahoga County Board of Health (US Dept of Health & Human Services)	Establishing Linkage to Care	Miyuki Tedor
\$6,192	University of California, San Francisco	A Multi-Methods Study of Barriers and Facilitators of Compassionate Release During COVID-19	Meghan Novisky
NURSING			
Nursing			
\$125,264	Northeast Ohio Medical University (University of Toledo) (Health Resources and Services) Administration)	Area Health Education Centers Point of Service	Joan Thoman
\$45,899	University of Toledo (Health Resources and Services Administration)	Area Health Education Centers Program COVID	Joan Thoman
\$43,528	Northeastern Ohio Medical University (Health Resources and Services Administration)	Geriatrics Workforce Enhancement Program	Joan Niederriter
\$41,250	Cuyahoga County Board of Health (Health Resources Services Administration)	Ending the HIV Epidemic - CSU CHW Partnership	Joan Thoman
\$41,250	Cuyahoga County Board of Health (US Department of Health and Human Services)	Ending the HIV Epidemic - CSU CHW Partnership	Joan Thoman

Amount	Sponsor	Title	Principal Investigator
\$26,000	Cuyahoga County Board of Health (Centers for Disease Control and Prevention)	Racial & Ethnic Approaches to Community Health (REACH)	Joan Thoman
SCIENCES & HEALTH PROFESSIONS			
Bio, Geo, Environ			
\$156,818	National Institutes of Health	Delineating the functions of EKLF during mammalian terminal erythroid differentiation	Merlin Nithya Gnanapragasam
\$156,818	National Institutes of Health	Delineating the functions of EKLF during mammalian terminal erythroid differentiation	Merlin Nithya Gnanapragasam
\$54,000	National Institutes of Health	Delineating the functions of EKLF during mammalian terminal erythroid differentiation	Merlin Nithya Gnanapragasam
\$50,000	Cooley's Anemia Foundation	Cooley Anemia	Nithya Gnanapragasam
\$3,000	Geauga Park District	Geauga Park Grants Student Support	Robert Krebs
Chemistry			
\$75,563	Cleveland Clinic Foundation (National Institutes of Health)	Multisite phosphorylated S6K1 directs a regulatory module determining adipocyte lipid metabolism	Valentin Gogonea
Dean's Office			
\$921,721	National Institutes of Health	CD-Cavs: Cross-Disciplinary Cardiovascular Sciences Training Program to Diversify the STEM workforce	Meredith Bond
\$30,000	Howard Hughes Medical Institute	Howard Hughes Institution	Meredith Bond
Gene Regulation in Health & Disease			
\$1,483,910	National Institutes of Health	Phosphatidylinositol Metabolism and Trafficking in Atherosclerosis and Inflammation	Kailash Gulshan
\$445,500	National Institutes of Health	Positive and negative regulation of REC-8 cohesin during meiosis	Aaron Severson
\$445,500	National Institutes of Health	Targeting Androgen Receptor-HSP27 Signaling in Glioblastoma	Bin Su
\$423,302	National Institutes of Health	CHANGE OF GRANTEE INSTITUTION: Sensory experience-dependent autophagy induces synapse remodeling during critical period	Jinqi Yan
\$199,984	National Science Foundation	Collaborative Research: numerical and experimental investigation of flow sensing by the primary cilium	Andrew Resnick
\$74,250	National Institutes of Health	Identify 70 bp repeat-associated chromatin components by End-targeting Proteomics of Isolated Chromatin segments (PICH) and initiate their functional characterization	bibo Li
\$58,993	Albert Einstein College of Medicine (National Institute of Environmental Health Sciences)	Role of autophagy in manganese-induced neurotoxicity	Ziyan Zhang
\$58,450	National Science Foundation	Collaborative Research: Telomerase Regulation in Deep Branching Eukaryotes	Bibo Li
\$50,000	Cooley's Anemia Foundation	Investigating the role of ATRX mediated subtelomere cohesion on β -globin expression in ATRX syndrome	Mahesh Ramamoorthy
Health Sciences			
\$13,500	Kent State University (Cleveland Foundation)	Designing the New Economy/Barrier Free Cleveland	Kelle DeBoth
Mathematics			
\$20,895	Sanford I. Weill Medical College of Cornell University	Identifying mechanisms of tissue injury in MS lesions: a multi-modality imaging approach	Sandra Hurtado Rua
\$19,973	National Science Foundation	Macaulay2 Workshop at Cleveland State University	Federico Galetto
Psychology			
\$999,886	National Science Foundation	ADVANCE Adaptation: Achieving Excellence and Equity through Academic Leadership Development	Michael Horvath

Amount	Sponsor	Title	Principal Investigator
\$7,500	Benjamin Rose Institute on Aging	Applied Aging Training Fellowship	Katherine Judge
\$3,149	Society for the Scientific Study of Religion	Who Forgives Whom? The roles of transgressor religiosity, victim religiosity, and apologies	Michael Horvath
URBAN			
Dean's Office			
\$250,000	Robert Wood Johnson Foundation	Investing in the Middle: A New Approach to Deliver on the Promise of Equitable Neighborhood Development.	Roland Anglin
Research & Public Policy			
\$400,000	Public Utilities Commission of Ohio	PUCO - Hazardous Materials Training	Robert Ziol
\$300,000	Department of Commerce	Applied Research and Technical Assistance for Economic Recovery in Response to the Coronavirus Pandemic in NEO and Ohio	Iryna Lendel
\$225,000	Kauffman Foundation	Kauffman Foundation Challenge	Merissa Piazza
\$100,000	JobsOhio	Shale Investment Dashboard FY2020	Andrew Thomas
\$100,000	JobsOhio Retainer 2017-2020	JobsOhio	Iryna Lendel
\$80,000	U.S. Department of Commerce	University Center Economic Development Administration Program	Iryna Lendel
\$70,000	Brite Energy Innovators	Appalachian Energy Storage Roadmap	Andrew Thomas
\$1,802	Center for Community Solutions	GIS Training for The Center for Community Solutions	Mark Salling
\$1,500	Hambden Township	Hambden Township Comprehensive Plan Update	Kirby Date
Urban Affairs			
\$89,693	NASA via Wichita Tribal Enterprises	WTE NASA Glenn Economic Impact 2016-2020	Iryna Lendel
\$78,212	Cleveland Public Library	CPL America Reads	Anita Ruf-Young
\$73,000	Northeast Ohio Public Energy Council	Electricity Competition Update	Andrew Thomas
Urban Studies			
\$69,842	University of Idaho (U.S. Department of Housing and Urban Development)	Toward Equity: An Assessment of the Community Development Block Grant and HOME Activities	Megan Hatch
\$12,956	Legal Aid Society of Cleveland	Spatial Analysis of Ohio's Driver's License Suspensions	Brian Mikelbank

Note: The Total Dollars of Awards in this report may differ from the totals contained in the Summary Comparison Section. This is due to the effect of cumulative transactions which cross reporting time periods.