



**Research and Sponsored Programs**  
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Date: December 6, 2023

To: Daniel Palmer

From: Marianne Shreck

RE: December 2023 Board of Trustees Report

Research and Sponsored Programs has been asked to provide a statement for the minutes of the December 2023 Board of Trustees meeting to accompany our report of “Grants and Contracts Awarded.” Please use the following text, and edit as necessary to fit the space available:

Wright State University has recorded 90 awards totaling \$26,922,303 in external funding for the time period of July 1, 2023 – October 31, 2023.

Recent funding received by the University includes \$496,352 from the Ohio Department of Higher Education to Dr. Huma Bashir in the Human Services Department to Support Behavioral Health Services Programs for Students at Wright State University. The purpose of this grant is multi-fold to help with the post-pandemic crisis of mental health-related issues with our students. Mental health is a leading concern of college students and is tied to student retention and success.

If you have any questions, please contact me at ext. 2297.

Thank you,

*Marianne Shreck*

Principal Investigator (PI)	Project Title	Sponsor	Cayuse Award #	Grant number	Award Amount	Date Awarded
<b>TOTAL</b>				<b>90 awards</b>	<b>\$ 26,992,303.00</b>	
<b>Boonshoft School of Medicine</b>					<b>\$ 5,034,427.00</b>	
<b>Biochemistry/Molecular Biology-SOM</b>					<b>\$ 174,702.00</b>	
Madhavi Kadakia	Enhancing STEM education through the iGEM competition	Universal Energy Systems Inc. (UES Inc.)	24-0006-A0001-1	671574	\$ 146,850.00	7/27/2023
Michael P. Markey	Direct RNA sequencing of ant queen vs. male caste	Central State University (CSU)	24-0017-A0001	671840	\$ 12,930.00	10/12/2023
Michael P. Markey	Fluorometry and method validation for CTS	Community Tissue Services - Dayton	24-0060-A0001	671849	\$ 14,922.00	10/24/2023
<b>Clinical Trials Research Alliance</b>					<b>\$ 75,128.00</b>	
John Bruun	CTRA SPOTLITE	Outcome Sciences, LLC	23-0348-A0001	671611	\$ 24,255.00	9/11/2023
Daniel Gaudin	CTRA Insightec	Insightec	23-0363-A0001	671722	\$ 50,873.00	9/11/2023
<b>Family Medicine</b>					<b>\$ 952,838.00</b>	
Katharine Conway	Refugee Health Care 2	Catholic Social Services of the Miami Valley (CSSMV)	23-0389-A0001	671782	\$ 35,022.00	7/21/2023
Peter Reynolds	Program Augmenting Resident Training for Needs in the Emotional Realm (PARTNER)	Health Resources and Services Administration/DHHS (HRSA)	23-0117-A0001-1	671678	\$ 917,816.00	8/4/2023
<b>Medicine</b>					<b>\$ 46,110.00</b>	
Kunal Desai	EEG study	Heartfulness Institute	24-0047-A0001	671830	\$ 5,000.00	8/4/2023
Luke McCoy	Dayton Children's Hospital Adult Cystic Fibrosis Center	Cystic Fibrosis Foundation (CFF)	23-0410-A0001-2	671507	\$ 41,110.00	8/17/2023
<b>NeuroSci Cell Bio Physiology-SOM</b>					<b>\$ 1,158,250.00</b>	
Jennae Shelby	Unfolding the Link Between the Endoplasmic Reticulum, AIS Shortening, and Cognitive Impairment in Type 2 Diabetes	National Institute of Neurological Disorders and Stroke/NIH/DHHS (NINDS)	24-0066-A0001-2	671388	\$ 134,885.00	8/2/2023
Adaku Ume	The role of NFkB in calcineurin inhibitor-induced renal fibrosis	National Institute of Arthritis & Musculoskeletal & Skin Diseases/NIH/DHHS (NIAMS)	23-0292-A0001-1	671606	\$ 45,077.00	8/11/2023
Christopher Dupont	Treating Hyperkalemic Periodic Paralysis	National Institute of Neurological Disorders and Stroke/NIH/DHHS (NINDS)	23-0293-A0001-1	671596	\$ 45,077.00	8/11/2023
Matthew Sherwood	Transcranial magnetic stimulation pilot program	JLC Services, LLC	23-0230-A0001	671785	\$ 160,843.00	8/17/2023
Sherif Elbasiouny	Excitability dysfunction mechanisms underlying the TDP43-dependent ALS and FTD pathogenesis	National Institute of Neurological Disorders and Stroke/NIH/DHHS (NINDS)	24-0013-A0001	671815	\$ 633,851.00	8/29/2023
Mark Rich	Genetic suppression of SMN mutations in spinal muscular atrophy	The Ohio State University	23-0305-A0001-2	671443	\$ 19,917.00	9/8/2023
Clintoria Williams	John F. Perkins, Jr. Research Career Enhancement Award	American Physiological Society (PHYSIO)	24-0035-A0001	671848	\$ 18,600.00	9/15/2023
Matthew Sherwood	MRI scanning in support of the cognitive neuroscience portfolio	Universal Energy Systems Inc. (UES Inc.)	23-0339-A0001	671847	\$ 100,000.00	9/21/2023
<b>Obstetrics &amp; Gynecology</b>					<b>\$ 386,000.00</b>	
David Dhanraj	Boonshoft School of Medicine/Miami Valley Regional Quality Improvement Hub	The Ohio State University	23-0041-A0002	671795	\$ 386,000.00	7/1/2023

<b>Pharmacology &amp; Toxicology-SOM</b>					<b>\$ 806,273.00</b>	
Jeffrey Travers	Oxidized lipids and microvesicle particles as effectors for chemical threats to skin	National Institute of Arthritis & Musculoskeletal & Skin Diseases/NIH/DHHS (NIAMS)	24-0007-A0001	671793	\$ 187,500.00	7/10/2023
William Cvammen	Travel to 2023 EMGS Meeting	Environmental Mutagenesis and Genomics Society	24-0004-A0001	671780	\$ 500.00	7/21/2023
Ravi Sahu	Mechanisms of augmented UVB immunosuppressive responses by polyaromatic hydrocarbons	National Institute of Environmental Health Sciences/NIH/DHHS (NIEHS)	23-0406-A0001-1	671584	\$ 412,500.00	8/4/2023
Stanley Rider	VA IPA - S. Dean Rider	Veterans Affairs Medical Center (VAMC)	23-0218-A0001-1	671742	\$ 24,674.00	8/17/2023
Karen Henkels	VA IPA - K. Henkels	Veterans Affairs Medical Center (VAMC)	23-0239-A0001-4	671549	\$ 44,783.00	8/17/2023
Christine Rapp	VA IPA - C. Rapp	Veterans Affairs Medical Center (VAMC)	23-0241-A0001-2	671220	\$ 41,445.00	8/17/2023
Mae Carpenter	VA IPA - A. Carpenter	Veterans Affairs Medical Center (VAMC)	23-0242-A0001-2	671448	\$ 42,335.00	8/17/2023
Anita Thyagarajan	VA IPA - A. Thyagarajan	Veterans Affairs Medical Center (VAMC)	23-0243-A0001-2	671219	\$ 34,468.00	8/17/2023
Jeffrey Travers	Laboratory Animal Resources Care	Veterans Affairs Medical Center (VAMC)	23-0407-A0001	671851	\$ 18,068.00	9/30/2023
<b>Population and Public Health Sci</b>					<b>\$ 1,349,626.00</b>	
Jo Ann Ford	Minority AIDS Initiative (MAI) - High Risk Populations "Reachable, Teachable, and Inclusive" (RTI) project	Substance Abuse & Mental Health Services Administration (SAMHSA)	23-0423-A0001-1	671641	\$ 967,639.00	7/13/2023
Timothy Crawford	VA IPA - T. Crawford	Veterans Affairs Medical Center (VAMC)	24-0039-A0001	671850	\$ 7,500.00	8/31/2023
Nicole Kinzeler	SAMHSA's Strategic Prevention Framework - Partnerships for Success	Substance Abuse & Mental Health Services Administration (SAMHSA)	23-0322-A0001	671852	\$ 374,487.00	9/18/2023
<b>Psychiatry</b>					<b>\$ 85,500.00</b>	
Julie Patrice Gentile	Coordinating Center of Excellence in Mental Illness/Intellectual Disability	Ohio Department of Mental Health and Addiction Services	23-0434-A0001	671792	\$ 85,500.00	10/31/2023
<b>College of Engineering and Computer Science</b>					<b>\$ 2,937,892.00</b>	
<b>Biomed Indust &amp; Human Factor Engr</b>					<b>\$ 210,000.00</b>	
Subhashini Ganapathy	OASIS: Ohio-Southwest Alliance on Semiconductors and Integrated Scalable-Manufacturing	University of Cincinnati (CINCIN)	23-0311-A0001-1	671656	\$ 210,000.00	10/12/2023
<b>Computer Science</b>					<b>\$ 1,798,022.00</b>	
Soon Chung	Anomaly Detection in Time-Series Data with Multiple Seasonal Trends	Strategic Ohio Council for Higher Education (SOCHE)	23-0174-A0001	671773	\$ 44,130.00	7/13/2023
Cogan Shimizu	Adaptive Machine Learning Under Uncertainty Via Global Sensitivity Analysis	Strategic Ohio Council for Higher Education (SOCHE)	23-0184-A0001	671778	\$ 22,519.00	8/8/2023
Tanvi Banerjee	Automated analysis of Supplier Capabilities for Ensuring National Dominance	Kairos Research LLC	23-0430-A0001	671552	\$ 207,000.00	9/1/2023
Cogan Shimizu	Proto-OKN Theme 3: An Education Gateway for the Proto-OKN	National Science Foundation (NSF)	23-0382-A0001	671786	\$ 1,499,518.00	9/15/2023
Cogan Shimizu	III: Travel Fellowships for Students from U.S. Universities to Attend ISWC 2023	National Science Foundation (NSF)	24-0003-A0001	671807	\$ 20,000.00	9/15/2023
Cogan Shimizu	NASIC Knowledge Modeling and Engineering Consultations	Riverside Research	24-0080-A0001	671818	\$ 4,855.00	9/25/2023

<b>Electrical Engineering</b>					<b>\$ 557,123.00</b>	
Brian Rigling	Dynamic, Multi-Objective Beamforming Optimization for Phased Arrays	Strategic Ohio Council for Higher Education (SOCHE)	23-0386-A0001-3	671364	\$ 34,960.00	7/11/2023
Michael Saville	Optics, Plasma Technology and Electro-Magnetic Antenna Structures (OPTEMASt)	Riverside Research	23-0375-A0001	671572	\$ 52,000.00	7/27/2023
Michael Saville	"Application of Next Generation Learning, Education, and Research for Sensors (ANGLERS)"	University of Dayton	23-0122-A0001	671814	\$ 296,595.00	9/25/2023
Rhonda Vickery	SOARING OTTER	University of Dayton	23-0140-A0002	671675	\$ 173,568.00	9/25/2023
<b>Mechanical &amp; Materials Engineering</b>					<b>\$ 372,747.00</b>	
J. Wolff	Machine Learning Enhancement of a Viscous Approximation Method for Supersonic-Hypersonic Flow	Strategic Ohio Council for Higher Education (SOCHE)	23-0182-A0001	671766	\$ 40,860.00	7/14/2023
J. Wolff	Combustion Cold Starting for a Mini Gas Turbine at Altitude	Strategic Ohio Council for Higher Education (SOCHE)	23-0181-A0001	671771	\$ 46,000.00	7/31/2023
Anthony Palazotto	Comparison of IN 718 AM and Traditional Buk Specimens Under High Energy Impact With an Additional Study of 3D Lattice AM Specimens	Air Force Office of Scientific Research (AFOSR)	23-0285-A0002	671783	\$ 91,520.00	8/2/2023
Akm Mian	Thermal-Mechanical Reliability of Printed Electronics	Strategic Ohio Council for Higher Education (SOCHE)	24-0041-A0001	671787	\$ 11,922.00	8/17/2023
J. Wolff	An Experimental Investigation into the Effect of Inlet Swirl on the Compression System of a Jet Engine	Strategic Ohio Council for Higher Education (SOCHE)	23-0016-A0002	671579	\$ 42,476.00	8/21/2023
J. Wolff	Unsteady Aerodynamics and Heat Transfer in Turbines	Strategic Ohio Council for Higher Education (SOCHE)	24-0051-A0001	671790	\$ 49,469.00	8/28/2023
J. Wolff	APOP	Innovative Scientific Solutions Inc.	24-0063-A0001	671816	\$ 14,000.00	9/14/2023
J. Wolff	WSU FY 2024 Campus Allocation	Ohio Space Grant Consortium	24-0049-A0001	671789	\$ 7,500.00	10/6/2023
Harok Bae	High-Dimensional Design Study of Conceptual Hypersonic Vehicles Using Physics-Informed Machine Learning	Purdue University	24-0028-A0001	671835	\$ 69,000.00	10/23/2023
<b>College of Health, Education and Human Services</b>					<b>\$ 7,268,135.00</b>	
<b>Coll of Health Ed &amp; Human Serv Adm</b>					<b>\$ 6,305,495.00</b>	
James Denniston	Dayton Regional Science, Technology, Engineering, and Mathematics School Services Agreement FY 24	Dayton Regional STEM School	24-0083-A0001	668340	\$ 5,374,856.00	9/22/2023
James Denniston	Great Minds Fellowship Program	Ohio Department of Higher Education	24-0014-A0001	671794	\$ 930,639.00	8/1/2023
<b>Human Services</b>					<b>\$ 496,352.00</b>	
Huma Aman Bashir	ODHE MH Support Funding Application	Ohio Department of Higher Education	24-0106-A0001	671831	\$ 496,352.00	10/30/2023
<b>Leadership Studies in Education</b>					<b>\$ 81,299.00</b>	
Noah Schroeder	AI Institute: Inclusive and Innovative Intelligent Technologies for Education	University of Illinois at Urbana-Champaign (UIUC)	23-0396-A0001	671762	\$ 81,299.00	7/12/2023

<b>School of Professional Psychology</b>					\$	<b>202,885.00</b>	
Jeremiah Schumm	SOPP Practicum: Trinity Community FY 2024	Trinity Community of Beavercreek	23-0387-A0001	671755	\$	12,000.00	7/1/2023
Jeremiah Schumm	SOPP Practicum: One Fifteen FY 2024	OneFifteen	23-0400-A0001	671764	\$	10,000.00	7/13/2023
Jeremiah Schumm	SOPP Practicum: Hope Center - Mini University FY 2024	Mini University, Inc.	24-0001-A0001	671765	\$	1,890.00	7/13/2023
Jeremiah Schumm	SOPP Practicum: Hope Center - Mini University FY 2024	Mini University, Inc.	24-0010-A0001	671774	\$	300.00	8/2/2023
Jeremiah Schumm	SOPP Practicum: Lindner Center FY 2024	Lindner Center for HOPE	24-0018-A0001	671775	\$	35,360.00	8/7/2023
Jeremiah Schumm	SOPP Practicum: University of Cincinnati FY 2024	University of Cincinnati (CINCIN)	24-0019-A0001	671776	\$	15,040.00	8/7/2023
Jeremiah Schumm	SOPP Practicum Empower Psychology & Wellness FY 2024	Empower Psychology + Wellness (EPW)	24-0033-A0001	671784	\$	27,000.00	8/17/2023
Jeremiah Schumm	SOPP Practicum: University of Dayton FY 2024	University of Dayton	24-0030-A0001	671788	\$	12,400.00	8/21/2023
Jeremiah Schumm	SOPP Practicum: Compdrug FY 2024	CompDrug	24-0050-A0001	671801	\$	8,320.00	8/24/2023
Jeremiah Schumm	SOPP Practicum: TriHealth FY 2024	TriHealth	24-0036-A0001	671798	\$	11,500.00	9/8/2023
Jeremiah Schumm	SOPP Practicum: Cordell FY 2024	Cordell Associates, LLC	24-0052-A0001	671799	\$	18,000.00	9/8/2023
Jeremiah Schumm	SOPP Student Stipends from ADAMHS for Field Training in Montgomery County FY 2024	Montgomery County ADAMH Services Board	23-0390-A0001	671806	\$	18,500.00	9/15/2023
Jeremiah Schumm	SOPP Practicum: Central Clinic FY 2024	Central Clinic	24-0092-A0001	671812	\$	24,000.00	9/28/2023
Jeremiah Allen Schumm	SOPP Practicum: Hearthstone FY 2024	Hearthstone Psychology	23-0394-A0002	671754	\$	2,375.00	10/3/2023
Jeremiah Allen Schumm	SOPP Practicum: University of Dayton FY 2024	University of Dayton	24-0030-A0002	671788	\$	6,200.00	10/25/2023
<b>Social Work</b>					\$	<b>100,000.00</b>	
Elizabeth Talbot	REEP FY24	Ohio Commission on Minority Health	24-0015-A0001	671821	\$	100,000.00	10/9/2023
<b>Teacher Education</b>					\$	<b>82,104.00</b>	
Brian Boyd	IEducate Montgomery County 2023	University of Cincinnati (CINCIN)	23-0372-A0001	671777	\$	82,104.00	8/1/2023
<b>College of Liberal Arts</b>					\$	<b>150,000.00</b>	
<b>College of Liberal Arts - Admin</b>							
Wayne Frederick Stark	COLA CLASS and Model UN ODHE Funding	Ohio Department of Higher Education	24-0068-A0001	671822	\$	150,000.00	9/7/2023
<b>College of Science and Math</b>					\$	<b>608,824.00</b>	
<b>Biological Sciences</b>					\$	<b>381,313.00</b>	
Abimbola Olayinka Kolawole	Campus Wastewater Monitoring-WSU Campus	Ohio Department of Health	23-0263-A0001	671829	\$	381,313.00	9/12/2023
<b>Physics</b>					\$	<b>24,215.00</b>	
Timothy Cooper	Electrical and Optical Characterization	KBR	23-0282-A0001-6	671379	\$	24,215.00	10/11/2023
<b>Psychology</b>					\$	<b>203,296.00</b>	
Scott N J Watamaniuk	Cortical and brainstem contributions to binocular eye movements	Smith-Kettlewell Eye Research Institute	23-0124-A0001	671791	\$	138,296.00	8/2/2023
David Lahuis	Calibrated Reliance in Artificial Intelligence / Machine Learning Systems (CRAIML)	InfoSciTex	23-0315-A0001	671800	\$	65,000.00	9/26/2023
<b>Chief Operating Officer</b>					\$	<b>1,980,000.00</b>	
Gregory Sample	The Power House	National Institute of Standards & Technology/Technology Administration/DOC (NIST)	23-0366-A0001	671819	\$	1,980,000.00	9/27/2023

<b>Intercollegiate Athletics</b>					<b>\$ 307,912.00</b>	
Joylynn Brown	NCAA Academic Performance Funds	Horizon League	24-0008-A0002	671175	\$ 138,829.00	8/28/2023
Joylynn Brown	Academic Enhancement Fund FY 24	Horizon League	24-0023-A0001	696778	\$ 169,083.00	8/28/2023
<b>Lake Campus</b>					<b>\$ 2,403.00</b>	
Betsy Jo Crites	LakerSpace Teacher STEM Camp	Mercer County Civic Foundation	24-0075-A0001	671833	\$ 2,403.00	10/17/2023
<b>Provost</b>					<b>\$ 1,241,940.00</b>	
Bruce Martin Mackh	Ohio Articulation & Transfer Network FY 24	Ohio Department of Higher Education	24-0025-A0001	668366	\$ 1,000,000.00	8/8/2023
Bruce Martin Mackh	Support for Position of Senior Associate Director, SCTAI, FY2024	Ohio Department of Higher Education	24-0057-A0001	671802	\$ 48,548.00	9/13/2023
Bruce Martin Mackh	Support for Position of Senior Associate Director, SCTAI, FY 2024	Ohio Department of Higher Education	24-0058-A0001	671803	\$ 78,299.00	9/13/2023
Bruce Martin Mackh	Support for Position of Senior Associate Director, SCTAI, FY2024	Ohio Department of Higher Education	24-0059-A0001	671804	\$ 91,093.00	9/13/2023
Bruce Martin Mackh	Industry Recognized Credential Transfer Assurance Guides "ITAGs" FY 24	Ohio Department of Higher Education	24-0053-A0001	671827	\$ 24,000.00	10/23/2023
<b>Vice President of Enrollment and Student Success</b>					<b>\$ 7,436,620.00</b>	
Bryan Martin	Science, Mathematics, and Research for Transformation (SMART) Defense Scholarship Program 2023-2024	Logistics Management Institute (LMI)	24-0029-A0001	671772	\$ 82,224.00	8/17/2023
Kimberly Ann Everhart	PELL 2023/2024	U.S. Department of Education	23-0350-A0002	671689	\$ 7,335,996.00	10/12/2023
Bryan Maleik Martin	Gear Up Scholarships	Ohio Department of Higher Education	24-0107-A0001	670276	\$ 18,400.00	10/13/2023
<b>Vice Provost for Research</b>					<b>\$ 24,150.00</b>	
Sarah Lillian Napier	USAFSAM ATLS 23-24	Air Force Research Laboratory (AFRL)	24-0102-A0001	671826	\$ 24,150.00	10/30/2023

**SUMMARY BY COLLEGE**

Boonshoft School of Medicine (BSOM)	\$ 5,034,427
College of Engineering and Computer Science (CECS)	\$ 2,937,892
College of Health, Education and Human Services (CHEH)	\$ 7,268,135
College of Liberal Arts (COLA)	\$ 150,000
College of Science and Math (COSM)	\$ 608,824
Executive Vice President & Chief Operating Officer	\$ 1,980,000
Intercollegiate Athletics	\$ 307,912
Lake Campus	\$ 2,403
Provost	\$ 1,241,940
Vice President for Enrollment Management and Student Success	\$ 7,436,620
Vice Provost for Research	\$ 24,150
<b>TOTAL</b>	<b><u>\$ 26,992,303</u></b>

**SUMMARY BY COLLEGE AND DEPARTMENT****Boonshoft School of Medicine (BSOM)**

Biochemistry and Molecular Biology	\$174,702
Clinical Trials Research Alliance (CTRA)	\$75,128
Family Medicine	\$952,838
Medical Education	\$46,110
Neuroscience, Cell Biology and Physiology	\$1,158,250
Obstetrics and Gynecology	\$386,000
Pharmacology and Toxicology	\$806,273
Population and Public Health Sciences	\$1,349,626
Psychiatry	<u>\$85,500</u>
Boonshoft School of Medicine (BSOM)	\$5,034,427

**College of Engineering and Computer Science (CECS)**

Biomedical, Industrial, and Human Factors Engineering	\$210,000
Computer Science and Engineering	\$1,798,022
Electrical Engineering	\$557,123
Mechanical Engineering	<u>\$372,747</u>
College of Engineering and Computer Science (CECS)	\$2,937,892

**College of Health, Education and Human Services (CHEH)**

Admin - Dean's Office	\$6,305,495
Human Services	\$496,352
Leadership Studies	\$81,299
School of Professional Psychology	\$202,885
Social Work	\$100,000
Teacher Education	<u>\$82,104</u>
College of Health, Education and Human Services (CHEH)	\$7,268,135

**College of Liberal Arts (COLA)**

Admin - Dean's Office	<u>\$150,000</u>
College of Liberal Arts (COLA)	\$150,000

**College of Science and Math (COSM)**

Biological Sciences	\$381,313
Physics	\$24,215
Psychology	<u>\$203,296</u>
College of Science and Math (COSM)	\$608,824

**Executive Vice President & Chief Operating Officer**

Executive Vice President & Chief Operating Officer	<u>\$1,980,000</u>
Executive Vice President & Chief Operating Officer	\$1,980,000



**Intercollegiate Athletics**

Intercollegiate Athletics		<u>\$307,912</u>
	Intercollegiate Athletics	\$307,912

**Lake Campus**

Lake - Education and Human Services		<u>\$2,403</u>
	Lake Campus	\$2,403

**Provost**

Provost		<u>\$1,241,940</u>
	Provost	\$1,241,940

**Vice President for Enrollment Management and Student Success**

Financial Aid		<u>\$7,436,620</u>
	Vice President for Enrollment Management and Student Success	\$7,436,620

**Vice Provost for Research**

Vice Provost for Research		<u>\$24,150</u>
	Vice Provost for Research	\$24,150

TOTAL \$26,992,303



