



**Research and Sponsored Programs**  
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Date: November 17, 2022

To: Daniel Palmer

From: Marianne Shreck

RE: December 2022 Board of Trustees Report

Research and Sponsored Programs has been asked to provide a statement for the minutes of the December 2022 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 114 awards totaling \$28,030,467.19 in external funding for the time period of July 1, 2022 – October 31, 2022.

Recent funding received by the University includes \$485,718 from National Institute of Diabetes and Digestive and Kidney Diseases to Dr. Clintoria Williams (Neuroscience, Cell Biology and Physiology-SOM department), to identify novel strategies to combat the detrimental cycle of hypertension and kidney damage in early and late stages.

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

Thank you,

*Marianne Shreck*

Marianne Shreck

Principal Investigator	Title	Sponsor	Proposal No.	Grant no.	Award Amount	Date Awarded
<b>TOTAL</b>					<b>\$ 28,030,467.19</b>	
<b>College of Science &amp; Mathematics (COSM)</b>						
<b>Biological Sciences</b>						<b>\$ 47,333.00</b>
William Romine	Restructuring Middle School Science around Grand Challenges	North Carolina - Chapel Hill	22-0044		\$ 21,153.00	10/13/2022
William Romine	Anchoring High School Students in Real-life Issues that Integrate STEM Content and Literacy	University of Missouri	20-136	671284	\$ 13,090.00	10/13/2022
William Romine	Linking Science, Mathematics and Literacy for All Learners	University of Missouri	21-0305	671648	\$ 13,090.00	10/20/2022
<b>Physics</b>						<b>\$ 569,790.00</b>
Jane Fox	MAVEN Mission	University of Colorado/NASA	14-0219-02	668674	\$ 106,016.00	7/13/2022
Assaf Harel	Seeing the world from above: Uncovering the neurocognitive basis of human expertise in scene recognition and exploration	Office of Naval Research	22-0042	671577	\$ 211,544.00	8/4/2022
Elliott Brown	THz Imaging Instrumentation for Air-Force Automatic Target Recognition	AFOSR-DURIP	21-0286	671624	\$ 252,230.00	9/29/2022
<b>Psychology</b>						<b>\$ 111,501.00</b>
David Lahuis	Human-Centered Science Laboratory (HCSL) Support of Air Force Research Laboratory Activities	Parallax	23-051		\$ 53,699.00	9/7/2022
Valerie Shalin	Medic Surgical Technical Assistance Tool (mSTAT) Development and Testing	University of Maryland	19-0350	671357	\$ 57,802.00	9/26/2022
<b>Semiconductor Research Center</b>						<b>\$ 14,134.19</b>
David Look	Electrical and Optical Characterization	KBR	21-0275	671379	\$ 14,134.19	7/27/2022

Principal Investigator	Title	Sponsor	Proposal No.	Grant no.	Award Amount	Date Awarded
<b>Engineering &amp; Computer Science (CECS)</b>					<b>\$ 1,964,814.00</b>	
<b>Administration</b>					<b>\$ 371,400.00</b>	
Brian Rigling	SEABASS	Air Force Research Laboratory	19-0296	670955+	\$ 209,500.00	7/27/2022
Brian Rigling	STRESS	Air Force Research Laboratory	18-0158	670687	\$ 55,000.00	8/3/2022
Brian Rigling	CLOWN	Air Force Research Laboratory	15-0302	670171	\$ 40,000.00	8/3/2022
Brian Rigling	Dynamic, Multi-objective Beanforming Optimization for Phased Arrays	Strategic Ohio Council for Higher Education	21-0188	671364	\$ 6,900.00	8/4/2022
Brian Rigling	STRESS	Air Force Research Laboratory	18-0158	670687	\$ 60,000.00	9/14/2022
<b>Biomed Indust &amp; Human Factor Engr</b>					<b>\$ 727,403.00</b>	
Subhashini Ganapathy	Human Factors Research Support	Kaleidoscope	23-008	671604	\$ 10,032.00	9/2/2022
Ulas Sunar	Quantitative Fluorescence Imaging-Guided Detection and Targeted Therapy Monitoring Platform for Ovarian Cancer Micrometastases	National Institutes of Health/NCI	20-0156	671197	\$ 329,592.00	9/2/2022
Ulas Sunar	Quantitative Diffuse Correlation Spectroscopy for Assessing Human Brain Function	National Institutes of Health/NIBIB	21-0053	671478	\$ 387,779.00	9/8/2022
<b>Computer Engineering and Computer Science</b>					<b>\$ 438,486.00</b>	
Cogan Shimizu	Student & Early Career Researcher Support for the 2022 U.S. SemanticTechnologies Symposium (US2TS)	National Science Foundation	23-034	671582	\$ 14,950.00	8/19/2022
Michael Raymer	Automated analysis of Supplier Capabilities for Ensuring National Dominance (ASCEND)	Kairos Research LLC	21-0047-01	671552	\$ 225,000.00	7/20/2022
Junjie Zhang	Source-Code-Based Function Search	Transportation Research Center Inc.	22-0256	671551	\$ 123,536.00	7/21/2022
Tanvi Banerjee	Smart and Connected Health (SCH) Pls Meeting 2022: Smart Health through the Life Course	National Science Foundation	22-0257	671590	\$ 25,000.00	8/11/2022
Junjie Zhang	Load-and-Play Interactive Cyber Security Labs	Strategic Ohio Council for Higher Education	23-070	671623	\$ 50,000.00	10/11/2022

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<b>Electrical Engineering</b>					<b>\$ 104,260.00</b>	
Michael Saville	Optics, Plasma Technology and Electro-Magnetic Antenna Structures (OPTEMASt) **Sponsor approval requested for BOT report**	Riverside Research	22-0237	671572	\$ 52,000.00	7/27/2022
Michael Saville	Modeling Multimode Phase/Gain Error of Reconfigurable RF Antenna Arrays	Strategic Ohio Council for Higher Education	22-0172	671506	\$ 52,260.00	8/1/2022
<b>Mechanical &amp; Materials Engineering</b>					<b>\$ 323,265.00</b>	
Henry Young	Sample Analysis Using XPS	Pegasus/EPA	22-0278	671571	\$ 45,838.00	8/3/2022
Raghu Srinivasan	Technical support for use of the CALPHAD approach to materials modeling	Applied Optimization	22-0277	671589	\$ 3,500.00	8/5/2022
Mitch Wolff	Study of DEW Thermal Performance Under Aircraft Mission Profile Conditions	Strategic Ohio Council for Higher Education	22-0140	671558	\$ 44,130.00	8/10/2022
Mitch Wolff	An Experimental Investigation into the Effect of Inlet Swirl on the Compression System of a Jet Engine	Strategic Ohio Council for Higher Education	23-016	671579	\$ 42,750.00	8/16/2022
Henry Young	Research into the Structural Dynamics and Mechanics of Gas Turbine Engine Components	ARCTOS	21-0079	671356	\$ 7,010.00	8/19/2022
Scott Thomas	SAE Aero Design Competition	Ohio Space Grant Consortium	22-0267	671516	\$ 4,000.00	8/31/2022
Mitch Wolff	2022/2023 Aerospace Propulsion Outreach Program (APOP)	ARCTOS	23-050	671605	\$ 6,037.00	9/7/2022
Mitch Wolff	2022-2023 OSGC Student Fellowships/Scholarships - Federal	Ohio Space Grant Consortium	23-075	671580	\$ 9,500.00	9/23/2022
Mitch Wolff	2022-2023 OSGC Student Fellowships/Scholarships - Federal	Ohio Space Grant Consortium	23-076	671581	\$ 3,500.00	9/23/2022
Mitch Wolff	High Power Density Carbon Neutral Electrical Power Generation for Air Vehicles	Tenn Tech	21-0114	671411	\$ 150,000.00	10/3/2022
Mitch Wolff	Design and Fabrication of a Hybrid Unmanned Air Vehicle	PC Krause and Associates	23-096	671618	\$ 7,000.00	10/4/2022

Principal Investigator	Title	Sponsor	Proposal No.	Grant no.	Award Amount	Date Awarded
<b>Enrollment Management</b>					<b>\$ 12,026,864.00</b>	
Kim Everhart	Pell Grant Program 2021-2022	U.S. Department of Education	23-039	671299	\$ 5,314,000.00	8/3/2022
Kim Everhart	Science, Mathematics, and Research for TraNational Science Foundation (SMART) Defense Scholarship Program 2022-2023	Logistics Management Institute (DOD)	23-042	671573	\$ 9,444.00	8/16/2022
Kim Everhart	Science, Mathematics, and Research for TraNational Science Foundation (SMART) Defense Scholarship Program 2022-2023	Logistics Management Institute (DOD)	23-056	671573	\$ 84,632.00	8/19/2022
Kim Everhart	Pell Grant Program	U.S. Department of Education	23-080	671497	\$ 6,200,665.00	9/20/2022
Donikea Sanders	ACHIEVE: A Chance to Have & Improve the Experience & Value of Education	U.S. Department of Education	23-002	671600	\$ 397,073.00	9/27/2022
Donikea Sanders	Gear Up Scholarships AY 22/23	Ohio Department of Higher Education	23-094	670276	\$ 19,550.00	10/7/2022
Hideo Tsuchida	Ohio Articulation & TraNational Science Foundation Network ITAG Implementation	Ohio Department of Higher Education	23-082	671615	\$ 1,500.00	10/3/2022

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<b>Health, Education, and Human Services (CHEH)</b>					<b>\$ 6,063,303.00</b>	
<b>Administrative</b>					<b>\$ 4,936,785.00</b>	
Jim Denniston	Dayton Regional Science, Technology, Engineering, and Mathematics School Services Agreement	Dayton Regional STEM School	23-061	668340	\$ 4,936,785.00	8/26/2022
<b>School of Professional Psychology</b>					<b>\$ 324,098.00</b>	
Janece Warfield	Moms2Be Program	Ohio State University (CareSource)	23-004	671576	\$ 99,078.00	8/2/2022
Jeff Cigrang	SOPP Practicum: Cordell Associates, LLC FY2023	Cordell Associates LLC	23-019	671570	\$ 24,000.00	8/5/2022
Jeff Cigrang	SOPP Practicum: Hillcrest Academy FY2023	Hillcrest Academy	23-021	671562	\$ 7,000.00	8/5/2022
Jeff Cigrang	SOPP Practicum: Lindner Center of Hope FY2023	Lindner Center of Hope	23-022	671563	\$ 12,000.00	8/5/2022
Jeff Cigrang	SOPP Practicum: National Youth Advocate Program FY2023	National Youth Advocate Program	23-023	671564	\$ 15,000.00	8/5/2022
Jeff Cigrang	SOPP Practicum: Empower Health & Wellness FY2023	Empower Health & Wellness	23-020	671561	\$ 15,000.00	8/5/2022
Jeff Cigrang	SOPP Practicum: Samaritan Behavioral Health FY2023	Samaritan Behavioral Health	23-024	671565	\$ 8,000.00	8/5/2022
Jeff Cigrang	SOPP Practicum:Self Matters LLC FY2023	Self Matters LLC	23-025	671566	\$ 6,000.00	8/5/2022
Jeff Cigrang	SOPP Practicum: South Community Mental Health Center FY2023	South Community Mental Health Center	23-026	671567	\$ 8,000.00	8/5/2022
Jeff Cigrang	SOPP Practicum: Summit Behavioral Healthcare, Inc. FY2023	Summit Behavioral Healthcare Inc (OMHAS)	23-027	671568	\$ 13,500.00	8/5/2022
Jeff Cigrang	SOPP Practicum: University Psychological Services Association FY2023	University Psychological Services Association	23-028	671569	\$ 9,000.00	8/5/2022
Jeff Cigrang	SOPP Practicum: Hearthstone FY 2023	Hearthstone	23-029	671578	\$ 11,000.00	8/22/2022
Jeff Cigrang	SOPP Practicum: Central Clinic FY 2023	Central Clinic	23-055	671583	\$ 24,000.00	8/24/2022
Jeff Cigrang	SOPP Practicum: CompDrug FY2023	CompDrug	23-059	671586	\$ 8,320.00	8/26/2022
Jeff Cigrang	SOPP Practicum: Mercy Health Physicians FY2023	Mercy Health Physicians	23-060	671587	\$ 5,500.00	8/26/2022

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Jeff Cigrang	SOPP Practicum: University of Dayton - FY2023	University of Dayton	23-054	671585	\$ 12,400.00	8/26/2022
Jeff Cigrang	SOPP Practicum: Montgomery County	Montgomery County Jail	23-068	671628/671	\$ 7,500.00	10/17/2022
Jeff Cigrang	SOPP Student Stipends from ADAMHS for Field Training in Montgomery County 2022-2023 Academic Year	Montgomery County ADAMHS	22-0188	671633	\$ 38,800.00	10/25/2022
<b>Teacher Education</b>					<b>\$ 802,420.00</b>	
Romena Holbert	High Dosage Tutoring Dayton Region	Ohio Department of Education	22-0227	671575	\$ 637,420.00	7/28/2022
Christa Agiro	I Educate Montgomery County	University of Cincinnati	22-0008	671622	\$ 165,000.00	10/5/2022

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<b>Institutional Research</b>					<b>\$ 3,000.00</b>	
Aaron Skira	The Data Literacy Institute at Wright State University	APLU	23-087	671609	\$ 3,000.00	9/21/2022
<b>Intercollegiate Athletics</b>					<b>\$ 269,973.00</b>	
Joylynn Brown	Academic Enhancement Fund	Horizon League	23-017	696778	\$ 169,973.00	8/3/2022
Joylynn Brown	WSU Men's Basketball Improvement Fund FY 23'	Horizon League	23-077	671557	\$ 100,000.00	9/20/2022
<b>President Admin</b>					<b>\$ 8,500.00</b>	
Gregory Sample	National Space Intelligence Center (NSIC) Activation Ceremony	US Air Force	23-031	671554	\$ 8,500.00	7/29/2022
<b>Provost</b>					<b>\$ 331,187.86</b>	
Amy Thompson	Ohio Articulation and TraNational Science Foundationer Network	Ohio Department of Higher Education	23-005	668366	\$ 103,678.00	7/22/2022
Amy Thompson	Support for Position of Senior Associate Director, SCTAI, FY2023	Ohio Department of Higher Education	23-046	671597	\$ 79,704.85	8/12/2022
Amy Thompson	Support for Position of Senior Associate Director, SCTAI, FY2023	Ohio Department of Higher Education	23-048	671598	\$ 99,796.22	8/12/2022
Amy Thompson	Support for Position of Senior Associate Director, SCTAI, FY2023	Ohio Department of Higher Education	23-049	671599	\$ 46,508.79	8/12/2022
Wafa Hozien	CTAG FY 23	Ohio Department of Higher Education	23-083	671612	\$ 1,500.00	9/23/2022



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<b>School of Medicine (SOM)</b>					<b>\$ 6,531,085.14</b>	
<b>Administrative</b>					<b>\$ 250,000.00</b>	
Valerie Weber	Public Health Expansion	Greene County, Ohio	23-047	671559	\$ 250,000.00	9/12/2022
<b>Biochemistry/Molecular Biology</b>					<b>\$ 669,088.00</b>	
Weiwen Long	Role of FXBL16 in Lung Adenocarcinomas with Activating KRAS Mutations	American Lung Association	21-0223	671408	\$ 100,000.00	7/29/2022
Madhavi Kadakia	Enhancing STEM education through the iGEM competition	UES/Air Force Research Laboratory	22-0276	671574	\$ 146,850.00	8/12/2022
Hongmei Ren	The Role of Lipin1 in Myofiber Stability and Integrity	National Institutes of Health/NIAMS	21-0106	671416	\$ 372,238.00	8/22/2022
Michael Schmidt	Determining how plant secondary metabolites influence redox cycling in soils.	U.S. Department of Agriculture	23-091	671617	\$ 50,000.00	10/4/2022
<b>Family Medicine</b>					<b>\$ 539,030.00</b>	
Paul Hershberger	Medicaid Simulations Project	Ohio State University	21-0187	671513	\$ 539,030.00	10/25/2022
<b>Medicine</b>					<b>\$ 41,110.00</b>	
Luke McCoy	Dayton Children's Hospital Adult Cystic Fibrosis Center	Cystic Fibrosis Foundation	21-0210	671507	\$ 41,110.00	9/26/2022
<b>Neurology</b>					<b>\$ 756,941.00</b>	
Tracy Eicher	CTRA - FENHANCE	Genentech	22-0159	671493	\$ 347,058.00	8/12/2022
Tracy Eicher	CTRA - FENTREPID	Genentech	22-0126	671494	\$ 409,883.00	8/12/2022
<b>NeuroSci Cell Bio Physiology-SOM</b>					<b>\$ 1,508,525.14</b>	
Keiichiro Susuki	Disruption of Excitable Axonal Domains by Glucose Metabolite Methylglyoxal	National Institutes of Health/NINDS	18-0433	670899	\$ 341,625.00	8/3/2022
Sherif Elbasiouny	Brain-Computer Interfaces for Assessment and Enhancement of Airman and Teams in Operational Environments (BCI-AEA-TOE)	Ball Aerospace	20-0316	671200	\$ 62,378.14	8/10/2022
Adaku Ume	Role of the TGF-beta Receptor in Calcineurin Inhibitor-Induced Renal Damage	Histochemical Society	23-066	671603	\$ 2,000.00	9/7/2022
Adaku Ume	The role of NFkB in calcineurin inhibitor-induced renal fibrosis	National Institutes of Health/NIDDKD	21-0327	671606	\$ 43,620.00	9/14/2022

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Christopher Dupont	Treating Hyperkalemic Periodic Paralysis	National Institutes of Health/NINDS	22-0116	671596	\$ 44,135.00	9/14/2022
Clintoria Williams	Mechanisms of the Renoprotective Properties of Zinc Supplementation in Mouse Models of Chronic Kidney Disease	National Institutes of Health/NIDDKD	21-0186	671620/671621	\$ 485,718.00	10/5/2022
Matt Sherwood	Cognitive and Neurology Research	KBR/Air Force Research Laboratory	23-067	671625	\$ 101,099.00	10/6/2022
Matt Sherwood	fMRI scanning to examine the neural effects of transcutaneous vagus nerve stimulation on learning	UES/Air Force Research Laboratory	23-052	671630	\$ 100,000.00	10/17/2022
Matt Sherwood	Cognitive and Neurology Research 2	KBR/Air Force Research Laboratory	22-0281	671626	\$ 327,950.00	10/21/2022
<b>OB/GYN</b>					<b>\$ 393,745.00</b>	
David Dhanraj	Boonshoft School of Medicine Miami Valley Regional Quality Improvement Hub (QI Hub)	Ohio Colleges of Medicine - Government Resource Center	23-041	671646/671647	\$ 393,745.00	10/13/2022
<b>Pediatrics</b>					<b>\$ 113,001.00</b>	
Cynthia Sieck	Total Engagement and Activation Measure (TEAM): Developing a measure of the capacity for patients to engage in their health care)	Ohio State University	22-0171	671616	\$ 86,794.00	9/29/2022
Cynthia Sieck	ACHIEVE: Successfully achieving and maintaining euglycemia during pregnancy for type 2 diabetes through technology and coaching	Ohio State University	22-0173	671644	\$ 26,207.00	10/27/2022
<b>Pharmacology &amp; Toxicology</b>					<b>\$ 354,767.00</b>	
Alex Carpenter	Damaged DNA Released from UVB Irradiated Keratinocytes	Mary Kay Foundation	22-0241	671555	\$ 25,000.00	7/21/2022
Mike Kemp	DNA Damage Response Kinase Signaling in Non-Replicating Human Cells & Tissues	National Institutes of Health/NIGMS	18-0219	670884	\$ 29,800.00	7/26/2022
Jeffrey Travers	Platelet Activating Factor and Epidermal Cytotoxicity	National Institutes of Health/NHLBI	19-0272	671066	\$ 37,500.00	8/3/2022
Elizabeth Cates	Veterans Affairs IPA Supplement	Dayton Veterans Affairs	20-0139	671527	\$ 4,761.00	8/18/2022
Ravi Sahu	Mechanisms of augmented UVB immunosuppressive responses by polyaromatic hydrocarbons	National Institutes of Health/NIEHS	22-0089	671584	\$ 225,000.00	8/22/2022
Jeffrey Travers	Veterans Affairs - Animals	Veterans Affairs	20-0101	671588	\$ 19,200.00	8/26/2022

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Courtney Sulentic	Utilization of Advanced Analytical Techniques and Methods for the identification of protein-protein interactions of the ArylHydrocarbon Receptor Complex in Human B Cells)	UES/Air Force Research Laboratory	22-0259	671602	\$ 13,506.00	9/2/2022
<b>Population and Public Health</b>					<b>\$ 1,389,378.00</b>	
Nicole Kinzeler	Evaluation Services for Montgomery County Juvenile Court	Montgomery Count Juvenile Court	23-015	671632	\$ 28,350.00	10/18/2022
Danielle Gainer	Wright OUTT (Opioid Use Treatment Training) Program	DHHS/SAMHSA	22-0240	671639/671640	\$ 245,000.00	10/27/2022
Jo Ann Ford	Minority AIDS Initiative (MAI) - High Risk Populations "Reachable, Teachable, and Inclusive" (RTI) project	DHHS/SAMHSA	22-0213	671641	\$ 494,925.00	10/27/2022
Jo Ann Ford	Day-TREE	DHHS/SAMHSA	18-0348	670807	\$ 541,103.00	10/27/2022
Nicole Kinzeler	Montgomery County Zero Suicide Project	Montgomery County ADAMHS	23-072	671642	\$ 80,000.00	10/27/2022
<b>Psychiatry</b>					<b>\$ 515,500.00</b>	
Julie Gentile	Coordinating Center of Excellence in Mental Illness/Intellectual Disability	ODMHAS	22-0192	671553	\$ 85,500.00	7/22/2022
Julie Gentile	DoDD Resident Training	Ohio DoDD	21-0244	671399	\$ 250,000.00	7/29/2022
Ryan Mast	Child Psychiatric Placements	Montgomery County ADAMHS	22-0210	671637	\$ 150,000.00	10/25/2022
Julie Gentile	Mental Illness/Developmentally Disabled Psychiatric Residency Placements	Montgomery County ADAMHS	22-0191	671638	\$ 30,000.00	10/25/2022

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<b>Student Success</b>					<b>\$ 44,102.00</b>	
Susan Schaurer	Be Ohio's Latest Degree-Holder (BOLD)	Ohio Department of Higher Education	23-063	671601	\$ 10,000.00	8/31/2022
Tim Littell	Dayton Biomanufacturing Camp for Underserved Communities	UES/Air Force Research Laboratory	22-0209	671614	\$ 34,102.00	9/28/2022
<b>University Libraries</b>					<b>\$ 4,999.00</b>	
Toni Vanden Bos	Paul Laurence Dunbar First Edition Books for Conservation	State Library of Ohio	23-010	671634	\$ 4,999.00	10/25/2022
<b>VP-Research (Wright State Research Institute)</b>					<b>\$ 39,881.00</b>	
Sarah Napier	USAFSAM ATLS 2022-2023	Air Force Research Laboratory	23-113	671635	\$ 39,881.00	10/25/2022