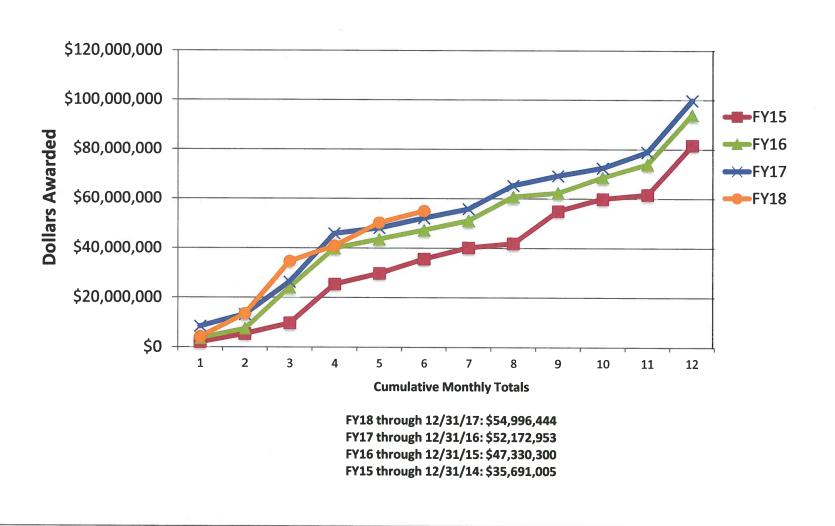
WRIGHT STATE UNIVERSITY Cumulative Grant and Contract Awards Comparison with Previous Three Fiscal Years through December



WRIGHT STATE UNIVERSITY GRANT AND CONTRACT AWARDS

PREPARED FOR BOARD OF TRUSTEES MEETING February 16, 2018*

TYPE	NEW	AWARDS	ONGO	DING AWARDS**	TOTAL AWARDS		
	Number	Dollars	Number	Dollars	Number	Dollars	
Research	9	\$926,877	28	\$3,552,260	37	\$4,479,137	
Instruction	2	\$482,529	0	\$0	2	\$482,529	
Institutional Support	0		2	\$502,585	2	\$502,585	
Public Service	5	\$306,342	3	\$75,000	8	\$381,342	
Student Aid	2	\$1,090,000	4	\$618,460	6	\$1,708,460	
TOTAL	18	\$2,805,748	37	\$4,748,305	55	\$7,554,053	

^{*} Figures include total support for awards made since the December 2017 Board of Trustees Meeting.

^{**} Ongoing awards include renewals, continuations, supplements and amendments. This report was prepared by the Office of Research and Sponsored Programs.

Grants and Contracts Awarded Since the December 15, 2017 Board of Trustees Meeting

Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Boonshoft	School of Medic	cine				
			Basi	c Research		
Continuation Federal Grant	K-Ras Plasma Membrane Interactions: A Tractable Therapeutic Target	12/01/2017 11/30/2018	DHHS, National Cancer Institute	Cho, Kwang-jin	\$249,000	The researcher will develop a new approach to block oncogenic K-Ras signaling, which could be a starting point to develop novel anit-cancer therapies that specifically target K-Ras driven cancers.
Continuation Non-Profit Grant	Chloride-Regulated Insulin Secretion	01/01/2018 12/31/2018	American Diabetes Association - National	Di Fulvio, Mauricio	\$115,000	The researcher will address molecular, cellular and functional mechanisms that will further understanding of the insulin secretory response to nutrients that may provide the basis for the design of new drugs that effectively stimulate insulin secretion from beta-cells.
Continuation Non-Profit Grant	Therapeutic Role of miR-126 Over- Expressing EPC-MVs for Ischemic Stroke in Diabetes	01/01/2018 12/31/2018	American Diabetes Association - National	Bihl, Ji Chen Chen, Yanfang Jacobs, Bradley S.	\$115,000	The researchers hypothesize that miR-126-EPC-MVs will have therapeutic effects on ischemic stroke in diabetes by protecting ECs/EPCS/neurons/ astrocytes against ischemic and inflammatory injury and promoting angiogenic/neurogenic repair via miR-126 downstream pathways.
Continuation Other Gov't. Subagreement	East Dayton AWARE Project	09/30/2017 09/29/2018	Montgomery County ADAMH Services Board	Wilson, Josephine F.	\$12,500	Eastway and ADAMHS of Montgomery County will partner to provide Mental Health First Aid training in east Dayton. The SARDI program in the Department of Community Health in the Boonshoft School of Medicine at Wright State University will serve as evaluator for the project.

Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
New Educ. Inst. Subagreement	Telomere Length Dynamics in Relation to Changes in Adiposity and Metabloic Risk	01/01/2017 08/31/2017	University of Texas Health Science Center at San Antonio	Towne, Bradford Kadakia, Madhavi P.	\$398,013	This project will investigate the use of chromosomal telomere length and telemerase activity as biomarkers of human body composition, adiposity, and as overall metabolic risk factors.
			Applie	ed Research		
Continuation Non-Profit Agreement	Miscellaneous Awards Under DCOP Fiscal Agency Agreement	08/01/2014 07/31/2018	Dayton Clinical Oncology Program	Nevels, Dieter	\$5,225	This amendment will allow supplemental funding for WSU to act as the fiscal agent fo the Dayton Clinical Oncology Program (DCOP) for managing Non-NIH NCI funds per master agreement Addendum #1 having an effective date of May 12, 2005.
			Pub	lic Service		
Continuation Non-Profit Subagreement	45417 MHFA Project	10/01/2017 09/30/2018	Mt. Olive Baptist Church	Wilson, Josephine F.	\$12,500	Evaluation services will be provided to Mt. Olive Baptist Church for their SAMHSA-funded Mental Health First Aid project.
Continuation Non-Profit Subagreement	Mental Health First Aid Training in Hamilton County	10/01/2017 09/30/2018	Mental Health America	Wilson, Josephine F.	\$12,500	Evaluation services will be provided for a SAMHSA-funded project that will present Mental Health First Aid training to parties who work with youth in Hamilton County.
New Other Gov't. Contract	Kinship Navigator Consortium FY 2018	10/01/2017 12/31/2018	Montgomery County Department of Job and Family Services	Duby, John C.	\$111,392	Continued funding of the Kinship Navigator Program in Montgomery County.
New Non-Profit Subagreement	Refugee Centered Medical Home - PCMH - Working Better for Our Newest Neighbors (Tier II)	08/01/2017 07/31/2018	Trailhead Institute	Conway, Katharine M.	\$25,000	The PI will host mixed focus groups to bring together refugees with health care providers, hospital administration, state Medicaid insurance representatives, public health professionals, students and faculty of health professional schools.

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Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
New Other Gov't. Subagreement	Justice and Mental Health Collaboration Project	10/01/2017 09/30/2018	City of Sharonville, Ohio	Kinzeler, Nicole	\$19,950	Wright State University has been subcontracted for facilitation of the planning process and evaluation. WSU will be responsible for collecting data, evaluating current Crisis Intervention Team (CIT) efforts within the Sharonville Police Department, and creating a strong evaluation plan for the Sharonville Police Department that can be utilized by other departments in the future.
			Acade	emic Support		
Amendment Federal Grant	Aerospace Medicine Training for the Era of Pioneering a Journey to Expanding Human Space Flights Beyond ISS and LEO	10/01/2016 09/30/2021	National Aeronautics and Space Administration	Jarnot, Thomas F.	\$205,514	The purpose of the project is to provide and maintain a residency training program in the field of Aerospace Medicine with the intent of graduating physicians becoming Board certified, therefore qualifying to be employed by NASA as flight surgeons to care for the astronaut population. The Division maintains a residency in Aerospace Medicine as well as a Master Degree program that are needed in order to achieve the desired outcome and that are to be partially funded by the desired educational grant.
			St	udent Aid		
New State Agreement	Ohio Innovation Partnership Choose Ohio First Scholarship Program	07/01/2017 06/30/2021	Ohio Department of Higher Education	Dunn, Margaret M.	\$1,080,000	This multi-site project seeks to increase the number of primary care physicians in the State of Ohio. The sites will work with the Chancellor of Higher Education to develop a detailed plan for spending curriculum enrichment grant funds.

Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
College of	Engineering and	l Compute	er Science			
			Basi	c Research		
Amendment Federal Contract	Sensor and Information Research Center for Understanding Systems (SIRCUS)	02/27/2015 03/30/2021	DoD, Air Force, Air Force Research Laboratory	Rigling, Brian D. Garber, Fred D. Saville, Michael Ash, Joshua Noel Wischgoll, Thomas Rizki, Mateen M.	\$680,000	The WSU team will undertake a multi-year effort to explore the development of methods to advance the state of the art in a variety of sensor exploitation research areas.
Amendment Federal Contract	SIRCUS TO2: Comprehensive Learning Objectives for Warfighter Needs (CLOWN)	03/31/2016 07/01/2019	DoD, Air Force, Air Force Research Laboratory	Rigling, Brian D. Garber, Fred D. Saville, Michael Shaw, Arnab K. Wischgoll, Thomas Rizki, Mateen M.	\$273,000	The WSU team will undertake a multi-year effort to explore the development of methods to advance the state of the art in a variety of sensor exploitation research areas.
Amendment Multiple Source Contract	Collaborative Center for Surveillance Research, Phase II	08/01/2017 07/31/2018	More Than One Source of Support	Rigling, Brian D.	\$175,000	These funds represent annual CSR membership fees from Boeing, Brilligent, Leidos, and SRC.
Amendment Non-Profit Subagreement	High-Fidelity Multi- Physics for Aerospace Vehicle Design Optimization	10/01/2017 09/30/2018	Dayton Area Graduate Studies Institute	Grandhi, Ramana V.	\$60,185	The researcher will be developing methods for realizing innovative aerospace vehicle configurations using multi-fidelity complex physics.
Amendment Industrial Subagreement	Growth and Characterization of Multiferroic Materials	01/01/2016 10/31/2019	Azimuth Corporation	Zhuang, Yan	\$34,595	This project will explore the use of ferroelectric (FE), ferromagnetic (FM), and multiferroic ceramic materials for potential use in the development of tunable components for the production of next generation mobile communication systems to simultaneously support multiple frequency bands or communication standards.

Grants and Contracts Awarded Since the December 15, 2017 Board of Trustees Meeting

Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Amendment Industrial Subagreement	Electron Optics Analyses towards Fundamental Understanding of Functional Thin Film Materials and Devices	01/01/2018 12/31/2018	Universal Energy Systems, Inc.	Huang, Hong	\$34,000	The purpose of this project is to develop fundamental understanding of thickness, defects, interface of functional thin film structures, and their relationships with the behaviors of devices.
Amendment Educ. Inst. Subagreement	Updating Skeletal Maturity Methods for U.S. Children	08/01/2017 07/31/2018	University of Missouri	Doom, Travis E.	\$24,938	The primary goal of this study is to provide up-to-date race-specific models to the FELS method for skeletal maturity assessment.
Amendment ndustrial Subagreement	Aeromechanical Investigation of Turbine Engine High Speed Compressors- Phase I/Phase II	06/01/2016 04/30/2018	Universal Technology Corporation	Wolff, J. Mitch	\$13,230	The focus of this project is research into the aeromechanics of high speed compressors to enable better compressor design that will be less likely to have blade break.
Amendment ndustrial Subagreement	Design and Fabrication of an External Combustor for a JetCat Turbojet Engine	08/01/2017 06/30/2018	Universal Technology Corporation	Roberts, Rory A.	\$6,815	Wright State University (WSU) will be creating a team of undergraduate mechanical and materials engineering students to participate in an Aerospace Propulsion Outreach Program (APOP). The program will consist of designing and fabricating an external combustor for a JetCat P80SE gas turbine engine.
Continuation Federal Grant	SCH: INT: kHealth: A Semantic Approach to Proactive, Personalized Asthma Management Using Multimodal Sensing	07/01/2017 06/30/2018	DHHS, National Institute of Child Health and Human Development	Sheth, Amit Thirunarayan, Krishnaprasad	\$338,661	The primary hypothesis of this project is that an evidence-based approach to asthma can help doctors determine more precisely the cause, severity, and control of asthma, and can help patients take preventive measures to manage asthma.

Grants and Contracts Awarded

Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Continuation Federal Grant	Managing Dementia through a Multisensory Smart Phone Application to Support Aging in Place	09/01/2017 08/31/2018	DHHS, National Library of Medicine	Banerjee, Tanvi	\$170,236	The researchers will be addressing the central problem of deriving actionable information from health sensor data by adapting a system comprising a smart mobile application with sensors.
New Industrial Subagreement	Radio Frequency/Microwave Graphene-based Chemical/Biological Sensor	10/02/2017 08/31/2019	Universal Technology Corporation	Huang, Hong	\$205,547	The WSU researchers, in collaboration with UTC, will fabricate small, highly sensitive, electrically efficient sensors for DoD applications.
New Industrial Subagreement	Secure Engineering of Trusted Systems: Medical Android Tactical Assault Kit Sensor Integration (TO3)	12/05/2017 06/20/2019	EDAptive Computing, Inc.	Emmert, John M.	\$120,350	Wright State researchers will develop and refine technologies that help the Air Force address the needs of vulnerability assessment and the vulnerability mitigation for sensor and situational awareness analytics medical devices on board an aircraft.
New Industrial Subagreement	Design Framework and CAD Tools for Hardware Security and Trust	06/07/2017 11/01/2020	EDAptive Computing, Inc.	Emmert, John M.	\$45,000	With Global Foundries taking over IBM's Trusted Foundry, hardware security is becoming a serious issue. An integrated circuit can be designed to specification, but untrusted agents have the opportunity to add modifications with little chance of detection. This effort mitigates some of the risks and enables more trusted integrated circuits.

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Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
New Industrial Subagreement	Microstructure Development During Rapid Solidification: A Materials Genome Project	09/01/2017 11/30/2017	Applied Optimization, Inc.	Srinivasan, Raghavan	\$9,999	The researchers will identify thermodynamic properties that will be of relevance for modeling microstructural development during additive manufacturing, and correlate modeling results proved by sponsor to microstructural observations.
New State Subagreement	2018 SAE Mini Baja - Raider Racing	09/01/2017 06/11/2018	Ohio Space Grant Consortium	Baudendistel, Craig M. Montavon, Jason	\$5,000	These funds will support the research, design, and competition of an off-road vehicle for the SAE Baja Competition.
			Applie	ed Research		
Amendment Industrial Subagreement	Reactionary Assistance Support for Container Technology	09/01/2017 08/31/2018	Engility Corporation	Wischgoll, Thomas	\$7,500	The researchers will investigate different container technologies and their suitability for data analytics and other tasks.
Amendment Industrial Grant	Background Color II	09/01/2017 05/31/2018	Center for Operator Performance	Gallimore, Jennie J.	\$4,800	The overall objective of this project is to improve the understanding of principles involved in selecting display color palettes to increase operator effectiveness.
			Ins	struction		
New State Grant	Center for Continuous Cybersecurity Education & Training (C3ET)	11/05/2017 11/05/2019	Ohio Department of Higher Education	Zhang, Junjie Saunders, Vance M. Xie, Jiafeng	\$278,306	The RAPIDS II project continues to focus on developing and expanding our C3ET vision, which now features cyber security curricula and infrastructure.

Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
College of	Liberal Arts					
			Bas	ic Research		
New Educ. Inst. Subagreement	Vetusta Monumenta: A Digital, Scholarly Edition	10/01/2017 09/30/2020	University of Missouri	Lake, Crystal B.	\$139,619	A digital humanities project to digitize and create an innovative, interactive scholarly edition of Vetusta Monumenta: a series of 337 large, highly-detailed images depicting at-risk antiquities, created by the Society of Antiquaries, London between 1718 and 1906.
			Pul	blic Service		
New State Coop. Agrmt.	Support for the Center for Liberal Arts Student Success at Wright State University	11/02/2017 06/30/2019	Ohio Department of Higher Education	Shannon, Vaughn	\$100,000	The funds will support the operations of the Center for Liberal Arts Student Success.
			St	tudent Aid		
New Other Gov't. Contract	Greene County Records Center and Archives Student Internship	01/02/2018 12/21/2018	Greene County Records Center and Archives	Swanson, Drew A.	\$10,000	A Public History Graduate Student, Erix Infante, will serve a paid internship at the Greene County Records Center and Archives. His work will benefit the Center and its patrons, while providing him valuable archival experience and instruction.

Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
College	e of Nursing and He	ealth				
			In	struction		
New State Grant	West Ohio (Dayton Region) Medical Technology Consortium	11/05/2017 11/05/2019	Ohio Department of Higher Education	Ulrich, Deborah Lee Mellon, Molly Beth Franck, Lynn Farra, Sharon L.	\$204,223	Through this consortium effort with other regional institutions, medical equipment will be purchased and used to train current students and the active workforce in the medical field.

Grants and Contracts Awarded

Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
College of	Science and Mat	thematics				
			Basi	c Research		
Amendment Educ. Inst. Subagreement	Facilitating Transfer of Mathematical Knowledge from Classroom to Real Life	09/01/2014 08/31/2018	Ohio State University	Kaminski, Jennifer A.	\$192,586	This project will examine students' acquisition of basic fraction arithmetic and basic probability knowledge.
Amendment Industrial Subagreement	Electrical and Optical Characterization	09/01/2016 05/19/2021	Wyle Laboratories	Look, David C.	\$100,000	The purpose of this project is to provide electrical and optical characterization of materials and devices of interest to the Sensors Directorate of the AFRL.
Amendment Non-Profit Subagreement	Integrated Sense, Assess and Augment (ISAA)	04/01/2017 04/30/2018	Wright State Applied Research Corporation	Elbasiouny, Sherif M.	\$51,550	The objective of the Integrated Sense, Assess and Augment (ISAA) program is to identify, integrate, and test specific sense, assess and augment tools and methodologies and to identify those most likely to achieve significant human performance gains in demanding Air Force mission environments.
Amendment Educ. Inst. Subagreement	Sediment Nitrogen Dynamics in the Western Basin of Lake Erie Relative to Cyanobacteria Blooms	02/01/2016 01/31/2019	Ohio State University	McCarthy, Mark J.	\$33,174	This study will provide essential information regarding the fate and transport of nitrogen within the Maumee River discharge area of Lake Erie and is a critical step in the future management of this vital water resource.
Amendment Industrial Subagreement	Terahertz Spectroscopic Chemical Sensor for Analysis of Fatigued Human Breath	02/29/2016 08/28/2018	Universal Technology Corporation	Medvedev, Ivan	\$18,605	The researcher will develop and deliver a fully integrated table top THz chemical sensor to monitor breath chemicals tentatively linked to sleep deprivation-induced fatigue from the first phase of this study.

Grants and Contracts Awarded

Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Continuation Federal Grant	TRPM7 and Cellular pH	12/01/2017 11/30/2018	DHHS, National Institute of Allergy and Infectious Diseases	Kozak, Juliusz Ashot	\$370,000	The main goal of this study is to investigate the function of TRPM7 kinase in leukocytes using a novel transgenic mouse model where TRPM7 has been replaced with its kinase-dead mutant form.
Continuation Non-Profit Contract	Establishing a Scientific Basis for Garlic Mustard Control and Eradication on Private Lands	07/01/2017 06/30/2018	Dairymen's Foundation, Wisconsin	Rooney, Thomas	\$8,000	The WSU researchers are developing a protocol for eradicating the invasive plant garlic mustard.
			Appli	ed Research		
Amendment Educ. Inst. Subagreement	Characterizing Ammonium Dynamics Affecting Harmful Cyanobacterial Blooms in Lake Erie	02/01/2016 01/31/2019	Ohio State University	Newell, Silvia Elena	\$33,174	The researcher will characterize ammonium dynamics affecting harmful cyanobacterial blooms in Lake Erie.
Amendment Educ. Inst. Subagreement	From the Headwaters to the Littoral Zone: Using Attached Algae as Indicators of Ecosystem Impairment in the Great Lakes	02/01/2016 01/31/2019	Ohio State University	Vadeboncoeur, Yvonne	\$32,994	The researcher, using emerging biomarker techniques and enzyme activity on conjunction with stable isotopes, will develop new metrics of aquatic ecosystem impairment that rely on early responses of attached algae to nutrient pollution.

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Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Raj Soin C	ollege of Busine	ss		_		
			Appl	ied Research		
New Educ. Inst. Subagreement	"Ask A Librarian" Live Chat Service: A Mixed Methods Research on the Service Styles of Professional Librarians and Student Workers	11/01/2017 10/31/2018	Ohio State University	Schiller, Shu	\$3,000	The grant will enable Wright State University Libraries to develop a training plan to develop student workers and optimize resource allocations for virtual reference services.
			Pu	blic Service		
New Industrial Grant	The Ascend Program	11/01/2017 10/31/2018	Fifth Third Bank	Black, Donerik G.	\$50,000	The purpose of this project is to provide additional one-on-one support to small businesses in low to moderate income areas who need business counseling.

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Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
School of	f Professional Psy	chology		_		
			Pu	blic Service		
Continuation State Contract	Research Evaluation Enhancement Projects (REEP) - IM HUB 18 -11	12/01/2017 11/30/2018	Ohio Commission on Minority Health	Meyer, Cheryl	\$50,000	The purpose of this project is to provide overview and evaluation recommendations of Commission-funded Infant Mortality HUB grants and evaluation plans.
			S	tudent Aid		
Continuation Industrial Contract	SOPP Practicum Training: Brief Therapy FY2018	07/01/2017 06/30/2018	Brief Therapy Center	Schultz, Michelle S.	\$42,000	The sponsor will provide direct and indirect client services training for seven SOPP doctoral students.

Grants and Contracts Awarded

Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Student	Affairs					
			Stude	ent Services		
New Federal Grant	Building a Coordinated Community Response to Address Sexual Assault, Domestic Violence, Dating Violence, and Stalking Among College Students	10/01/2017 09/30/2020	U.S. Department of Justice	Biesemeyer, Destinee N.	\$297,071	In an effort to continuously revise and improve access to resources for survivors of sexual assault, domestic violence, dating violence, and stalking among college students, measures to bridge services between campus and community partnerships are becoming essential to the process.

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Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
University	ywide					
			Stu	ident Aid		
Amendment Federal Grant	College Work Study Program	07/01/2017 06/30/2018	U.S. Department of Education	Barnhart, Amy	\$14,379	These funds help support the college workstudy program at WSU.
Continuation State Grant	Choose Ohio First Continuing Scholar Program FY2018	07/01/2017 06/30/2021	Ohio Department of Higher Education	Sudkamp, Thomas A.	\$380,000	Wright State University will continue to provide Choose Ohio First Scholarships to current scholarship recipients in order for them to finish their degrees within the STEMM disciplines.
Continuation Federal Contract	ACHIEVE: A Chance to Have and Improve the Experience and Value of Education	10/01/2017 09/30/2018	U.S. Department of Education	Martin, Bryan M.	\$182,081	The renewal project will continue to increase access to postsecondary education for low-income student parents through the provision of child care services at Mini University.

February 16, 2018 Wright State University Grants and Contracts Awarded Since the December 15, 2017 Board of Trustees Meeting

Туре	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
VP for Res	search and Dean	of the Gra	aduate School	L		
			Bas	sic Research		
Continuation Educ. Inst. Subagreement	Test and Evaluation of Autonomous Systems (TEAS)	09/19/2017 09/18/2018	Ohio University	Gross, David C.	\$392,492	Test & Evaluation of Autonomous Systems (TEAS) is an Ohio Federal Research Network project to create capability to test and evaluate autonomous system for trustworthiness with a focus on safety and security.
New Educ. Inst. Subagreement	Travel Reimbursement for Test and Evaluation of Autonomous Systems	09/16/2016 09/18/2018	Ohio University	Gross, David C.	\$349	Funds provided for travel to meetings.

Total Funded \$7,554,053