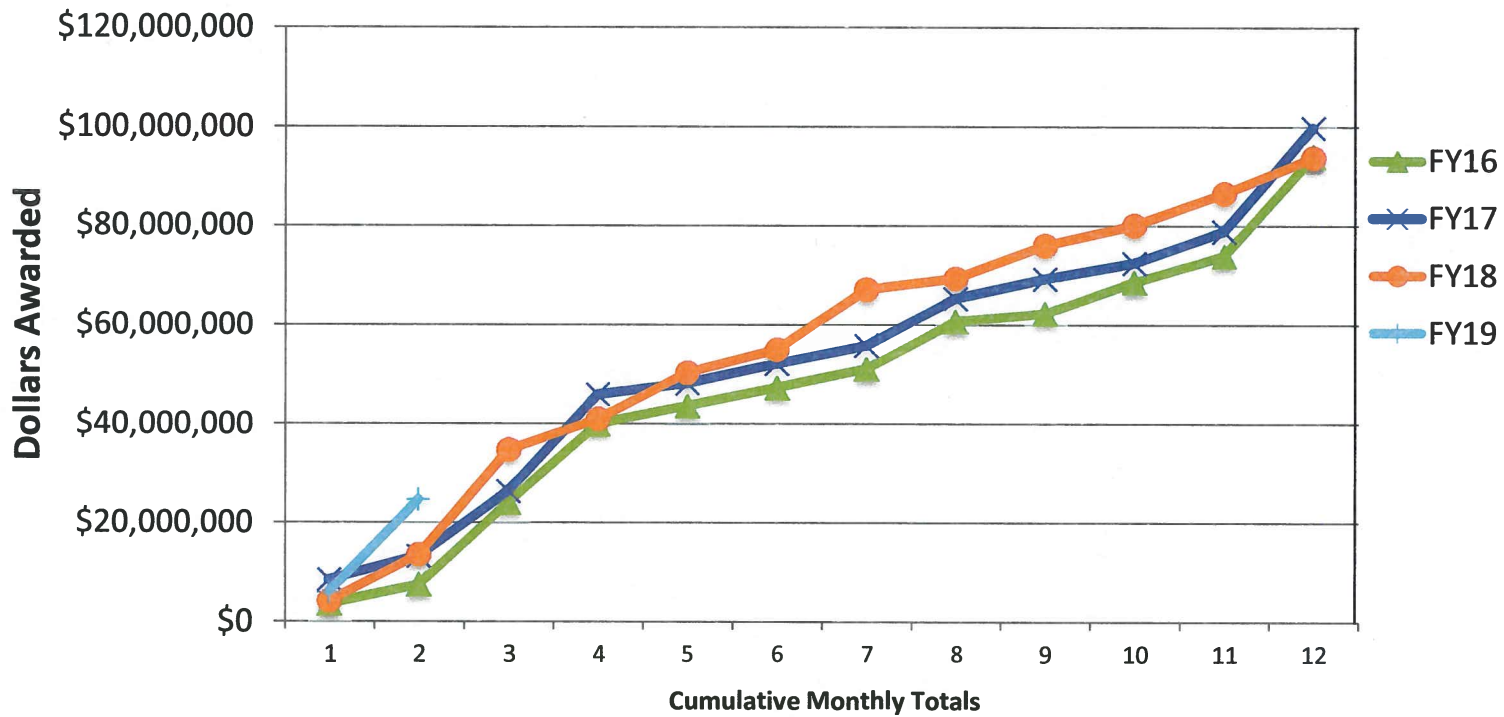


WRIGHT STATE UNIVERSITY
Cumulative Grant and Contract Awards
Comparison with Previous Three Fiscal Years through August



FY19 through 8/31/18: \$24,711,240
FY18 through 8/31/17: \$13,596,184
FY17 through 8/31/16: \$13,308,490
FY16 through 8/31/15: \$7,473,813

**WRIGHT STATE UNIVERSITY
GRANT AND CONTRACT AWARDS**

**PREPARED FOR
BOARD OF TRUSTEES MEETING
October 18, 2018***

TYPE	NEW AWARDS		ONGOING AWARDS**		TOTAL AWARDS	
	Number	Dollars	Number	Dollars	Number	Dollars
Research	67	\$10,078,826	72	\$13,802,574	139	\$23,881,400
Instruction	2	\$108,643	6	\$3,650,077	8	\$3,758,720
Institutional Support	3	\$162,050	6	\$994,684	9	\$1,156,734
Public Service	15	\$239,130	11	\$5,602,130	26	\$5,841,260
Student Aid	5	\$1,938,869	6	\$1,967,992	11	\$3,906,861
TOTAL	92	\$12,527,518	101	\$26,017,457	193	\$38,544,975

* Figures include total support for awards made since the April 2018 Board of Trustees Meeting.

** Ongoing awards include renewals, continuations, supplements and amendments.

This report was prepared by the Office of Research and Sponsored Programs.

**October 18, 2018
Wright State University
Grants and Contracts Awarded
Since the April 27, 2018 Board of Trustees Meeting**

Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Boonshoft School of Medicine						
Basic Research						
Amendment Educ. Inst. Subagreement	African Ancestry Genomic Psychiatry Cohort	06/16/2015 01/31/2019	Research Foundation for The State University of New York	Lehrer, Douglas S.	\$163,800	The Principal Investigator will enroll individuals that meet diagnostic criteria for schizophrenia or schizoaffective disorder, depressive type, in the Genomic Psychiatry Cohort.
Amendment Non-Profit Subagreement	Integrated Sense, Assess and Augment (ISAA)	02/01/2018 01/31/2019	Wright State Applied Research Corporation	Elbasiouny, Sherif M.	\$105,875	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	Anti-TNF Monotherapy versus Combination Therapy with Low Dose Methotrexate in Pediatric Crohn's Disease (COMBINE)	07/01/2017 10/31/2018	University of North Carolina at Chapel Hill	Saeed, Shehzad	\$15,828	The goal of this project is to assess if combination therapy with an immunomodulator medication (methotrexate) and biologic therapy vs monotherapy with biologic therapy alone results in better and sustained outcomes in children with Crohn's disease.
Continuation Federal Grant	A Natural History Study of Buprenorphine Diversion, Self- Treatment, and Use of Drug Abuse Treatment Services	05/01/2018 04/30/2019	DHHS, National Institute on Drug Abuse	Daniulaityte, Raminta Carlson, Robert G. Nahhas, Ramzi	\$581,500	The overall purpose of this natural history study is to describe and analyze the nature and consequences of buprenorphine diversion among opioid dependent users.

**October 18, 2018
Wright State University
Grants and Contracts Awarded
Since the April 27, 2018 Board of Trustees Meeting**

Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Continuation Federal Grant	Platelet Activating Factor and Epidermal Cytotoxicity	07/01/2018 06/30/2019	DHHS, National Heart, Lung, and Blood Institute	Travers, Jeffrey B. Sahu, Ravi P. Cool, David R. Li, Gengxin	\$374,675	The information derived from this study will result in improved understanding and novel therapeutics for patients suffering environmental skin injuries in the setting of ethanol exposure.
Continuation Federal Grant	ERK3 Kinase Signaling in Lung Cancer	06/01/2018 05/31/2019	DHHS, National Cancer Institute	Long, Weiwen	\$338,550	The long term goal of this project is to establish the role of ERK3 as a new diagnostic marker and/or a therapeutic drug target, thereby developing therapeutic drugs targeting ERK3 for treating advanced lung cancer.
Continuation Federal Grant	Reduced Motoneuron Excitability in Sepsis	07/01/2018 06/30/2019	DHHS, National Institute of Neurological Disorders and Stroke	Rich, Mark M.	\$325,747	This project will be the first to determine the mechanism underlying a previously unsuspected contributor to weakness in critically ill patients: reduced motoneuron excitability.
Continuation Federal Grant	Signaling Mechanism of the DNA Replication Checkpoint	02/01/2018 01/31/2019	DHHS, National Institute of General Medical Sciences	Xu, Yong-Jie	\$259,000	The proposed research is relevant to part of the NIH's mission that pertains to developing fundamental knowledge that will help to reduce the burdens of human disability.
Continuation Federal Grant	eDarkTrends: monitoring cryptomarkets to identify emerging trends of illicit synthetic opioids use	06/01/2018 05/31/2019	DHHS, National Institute on Drug Abuse	Daniulaityte, Raminta Sheth, Amit Nahhas, Ramzi Carlson, Robert G.	\$184,658	The main objective of this project is to develop an innovative software system, eDarkTrends, that will provide a NPS-dedicated early warning system focusing on synthetic opioids.
Continuation Non-Profit Grant	Developing Therapy for Myotonia Congenita	02/01/2018 01/31/2019	Muscular Dystrophy Association	Rich, Mark M.	\$85,120	The goal of this grant is to identify drugs that can be used to treat muscle stiffness and weakness in the muscle disease myotonia congenita.

**October 18, 2018
Wright State University
Grants and Contracts Awarded
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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Continuation Non-Profit Grant	Role of ACE2 Overexpressing Endothelial Progenitor Cells in Cerebral Hemorrhage	01/01/2018 12/31/2018	American Heart Association - National	Bihl, Ji Chen	\$77,000	The major goals of this project are to determine the protective effects of ACE2/Ang-(1-7)/Mas axis on ECs and neurons, vascular remodeling and cerebral hemorrhage by alleviating the injury and promoting the recovery.
Continuation Federal Agreement	Dayton Veterans Affairs Medical Center IPA Agreement	10/01/2017 09/30/2018	Veterans Affairs Medical Center	Rapp, Christine M.	\$45,117	Ms. Rapp will be assisting in growing keratinocytes and measuring cytokines from cell and murine tissues.
Continuation Federal Agreement	Dayton Veterans Affairs Medical Center IPA Agreement	10/01/2017 09/30/2018	Veterans Affairs Medical Center	Cates, Elizabeth E.	\$38,761	Ms. Cates will be responsible for overseeing the day to day activities of Dr. Traver's research. She will be involved in subject recruitment, study visits, and all correspondence and follow up per protocol guidelines.
Continuation Federal Grant	Mechanisms Underlying Excitability Regulation of Motoneuron Types in ALS	02/01/2018 01/31/2019	DHHS, National Institute of Neurological Disorders and Stroke	Elbasiouny, Sherif M.	\$32,375	This project seeks to develop a fusion of experimental and computer simulation techniques to better analyze the complex disease mechanisms of amyotrophic lateral sclerosis (ALS).
Continuation Federal Agreement	Dayton Veterans Affairs Medical Center IPA Agreement	10/01/2017 09/30/2018	Veterans Affairs Medical Center	Romer, Eric J.	\$31,711	Dr. Romer will be responsible for the experimental design and execution of experiments related to the project.
Continuation Federal Agreement	Dayton Veterans Affairs Medical Center IPA Agreement	10/01/2017 12/31/2017	Veterans Affairs Medical Center	Simmons, Gordon R	\$8,967	Mr. Simmons will assist in IRB regulatory support throughout the study lifecycle. He will provide research regulatory support as needed for Dr. Travers grant.

October 18, 2018
Wright State University
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Since the April 27, 2018 Board of Trustees Meeting

Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
New Federal Grant	Disruption of excitable axonal domains by glucose metabolite methylglyoxal	08/15/2018 07/31/2019	DHHS, National Institute of Neurological Disorders and Stroke	Susuki, Keiichiro	\$390,200	The PI will show that the glucose metabolite methylglyoxal is involved in the neurological symptoms of neurodegenerative conditions such as diabetes.
New Federal Grant	Exosomes from miR-primed endothelial progenitor cells for treating ischemic stroke	05/01/2018 01/31/2019	DHHS, National Institute of Neurological Disorders and Stroke	Bihl, Ji Chen Chen, Yanfang	\$328,125	In this project, we propose to reach the goal by using endothelial progenitor cell-released exosomes carrying microRNA-126 and microRNA-210 to treat ischemic stroke.
New Non-Profit Subagreement	Identification of Electrophysiological Markers for Early Diagnosis of Amyotrophic Lateral Sclerosis	03/01/2018 02/28/2019	National Academy of Sciences	Elbasiouny, Sherif M.	\$37,204	This project aims to combine computational modeling with animal experiments to identify early irregular patterns in nerve recordings for early diagnosis of Amyotrophic Lateral Sclerosis.
New Educ. Inst. Contract	Understanding and Enhancing Rhizobium-Cereal Interactions	04/26/2018 04/25/2019	University of Wisconsin	Paliy, Oleg	\$30,000	This project will study gene expression in bacterial cells while they interact with agriculturally important plant species.
Supplement Federal Grant	The impact of neuromodulatory state on the excitability changes of motoneurons and the motor pool in ALS	07/01/2018 01/31/2019	DHHS, National Institute of Neurological Disorders and Stroke	Elbasiouny, Sherif M.	\$40,108	This award provides Diversity Supplement funds for the parent R01 grant entitled Mechanisms Underlying Excitability Regulation of Motoneuron Types in ALS.
Supplement Industrial Agreement	Biopsy Study	10/27/2017 10/26/2018	Devicor Medical Products, Inc.	Dudley, Emily S.	\$14,667	Wright State University will support the testing of biopsy devices.

October 18, 2018
Wright State University
Grants and Contracts Awarded
Since the April 27, 2018 Board of Trustees Meeting

Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Supplement Industrial Agreement	Biopsy Study	10/26/2010 10/26/2017	Devicor Medical Products, Inc.	Boivin, Gregory	\$4,004	Wright State University will support the testing of biopsy devices.
Applied Research						
Continuation Non-Profit Subagreement	NCI Award Under DCOP Fiscal Agency Agreement	08/01/2018 07/31/2019	Dayton Clinical Oncology Program	Paul, Kimberly A.	\$783,697	WSU will continue to serve as the fiscal agent for Dayton Clinical Oncology Program (DCOP) funding in FY2017-2019 per the agreement (with effective date of December 23, 2001).
Continuation Federal Grant	Wounding Therapy and Photocarcinogenesis	05/01/2018 04/30/2019	DHHS, National Institute on Aging	Travers, Jeffrey B.	\$308,969	The goal of this project is to determine whether wounding therapies, currently in use as cosmetic procedures, can prevent the occurrence of non-melanoma skin cancers in geriatric patients.
Continuation Educ. Inst.	Ohio Opioid Analytics Project	07/03/2018 06/30/2019	Ohio State University	Nahhas, Ramzi	\$44,873	The project will build and deliver predictive models for three opioid endpoints: prevention, child welfare, and treatment.
Continuation Non-Profit Agreement	Miscellaneous Awards Under DCOP Fiscal Agency Agreement	08/01/2017 07/31/2018	Dayton Clinical Oncology Program	Nevels, Dieter	\$29,633	This amendment will allow supplemental funding for WSU to act as the fiscal agent for 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.
New Non-Profit Grant	Impact of platelet- activating factor in targeted therapy responses in melanoma	03/01/2018 02/28/2019	Elsa U. Pardee Foundation	Sahu, Ravi P.	\$149,111	The goal of this project is to test the novel hypothesis that PAF-R agonists produced as a consequence of BRAFi therapy could modulate its therapeutic efficacy in melanoma patients.

**October 18, 2018
Wright State University
Grants and Contracts Awarded
Since the April 27, 2018 Board of Trustees Meeting**

Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
New Industrial Subagreement	CTRA - OCTAPLEX	02/21/2018 12/31/2019	inVentiv Health Clinical	McCarthy, Mary C.	\$92,825	CTRA - OCTAPLEX
New Industrial Contract	CTRA - ASTEROID	06/30/2017 12/31/2019	Bayer HealthCare Pharmaceuticals Inc.	Yaklic, Jerome Lumetta	\$78,711	CTRA - ASTEROID
New Non-Profit Subagreement	CTRA - STOP2	08/14/2017 12/31/2019	Seattle Children's Hospital	Polenakovik, Hari M.	\$56,057	CTRA - STOP2
New Federal Grant	Veterans Affairs Medical Center IPA Agreement - Knisely	04/01/2018 09/30/2018	Veterans Affairs Medical Center	Knisely, Christina B	\$32,133	This study is designed to test whether FLR treatment of one forearm, wrist, and dorsal hand will decrease the number of actinic keratosis and skin cancers developed on that arm over the next 5 years, in comparison to the untreated arm.
New Federal Grant	Veterans Affairs Medical Center IPA Agreement - Williams	04/01/2018 09/30/2018	Veterans Affairs Medical Center	Williams, Amy R	\$25,128	This study is designed to test whether FLR treatment of one forearm, wrist, and dorsal hand will decrease the number of actinic keratosis and skin cancers developed on that arm over the next 5 years, in comparison to the untreated arm.
New Industrial Subagreement	CTRA - Inform CLL	02/14/2018 12/31/2019	Pharmacyclics LLC	Mott, Robert	\$18,523	CTRA - Inform CLL
New Industrial Contract	CTRA - M12-816	11/01/2017 11/30/2017	AbbVie Inc.	Talbot, Ted	\$15,000	CTRA - M12-816

**October 18, 2018
Wright State University
Grants and Contracts Awarded
Since the April 27, 2018 Board of Trustees Meeting**

Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
New Educ. Inst. Subagreement	CTRA - CONNECT-HF	04/24/2018 12/31/2021	Duke University	Krishnamani, Rajan	\$13,226	CTRA - CONNECT-HF
New Industrial Subagreement	Clinial Trial - TANGO	08/04/2016 12/31/2018	inVentiv Health Clinical	Bowman, Marjorie A.	\$11,510	Clinial Trial - TANGO
New Industrial Grant	Treatment of Neuopathic Pain with a Non-Addictive Drug Combination	08/01/2017 07/31/2018	Soin Neuroscience Inc.	Corbett, Adrian M.	\$7,500	This project will induce pain in rats and then treat with: 1) control; 2) drug combination 3) drug combination plus ibuprofen; 4) ibuprofen only, assessing pain relief over time.
New Educ. Inst. Subagreement	Ohio Opioid Analytics Project	05/14/2018 06/30/2018	Ohio State University	Nahas, Ramzi	\$5,521	The project will build and deliver predictive models for three opioid endpoints: prevention, child welfare, and treatment.
Supplement Industrial Subagreement	CRISPR IGS Pilot Project	06/12/2018 09/05/2018	Ginkgo Bioworks	Paliy, Oleg	\$29,689	Using the in vitro human gut simulator system (IGS) developed in Dr. Paliy's laboratory, the PI will assess the ability of an E. coli strain engineered to contain chloramphenicol resistance gene (CmR) cutting CRISPR system to reduce overall CmR gene abundance in complex human gut microbial community.
Instruction						
Continuation State Grant	Clinical Teaching Subsidy	07/01/2018 06/30/2019	Ohio Department of Higher Education	Paul, Kimberly A.	\$2,860,830	This project will support WSU Clinical Teaching Program.
Continuation State Grant	Family Practice Program	07/01/2018 06/30/2019	Ohio Department of Higher Education	Paul, Kimberly A.	\$365,964	This project will support the WSU Family Practice Program.

**October 18, 2018
Wright State University
Grants and Contracts Awarded
Since the April 27, 2018 Board of Trustees Meeting**

Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Continuation State Grant	Primary Care Residencies	07/01/2018 06/30/2019	Ohio Department of Higher Education	Paul, Kimberly A.	\$256,420	This project will support primary care residencies.
Continuation Non-Profit Grant	Wright Rural Health Initiative Implementation Proposal	06/01/2018 05/31/2019	HealthPath Foundation of Ohio	Roman, Brenda	\$80,000	This project supports the implementation of 1) a longitudinal rural clerkship experience for third year medical students; 2) an inter-professional rural training program for nursing, medical and pharmacy students; and 3) the planning for a rural residency track in Family Medicine and/or Pediatrics.
Continuation State Grant	Geriatric Medicine Program	07/01/2018 06/30/2019	Ohio Department of Higher Education	Paul, Kimberly A.	\$70,863	This project will support the geriatric medicine program.
New Educ. Inst. Subagreement	MEDTAPP Ohio Cardiovascular Disease Value Collaboration	10/04/2017 06/30/2019	Case Western Reserve University	Colon, Roberto J. Solomon, Glen D.	\$92,643	The goal of this project is to develop an interprofessional CVD clinical curriculum with standards for health professionals and health professions students (e.g., residents, medical, nursing, CHW students) with an emphasis on quality improvement and health equity.
Public Service						
Continuation Other Gov't. Subagreement	Evaluation Services for Montgomery County Juvenile Court	07/01/2018 06/30/2019	Montgomery County Juvenile Court	Kinzeler, Nicole	\$23,310	Montgomery County Juvenile Court has received a subsidy grant to support their behavioral change programs. The SARDI Program in BSOM will provide evaluation services to support this grant project.
Continuation Educ. Inst. Agreement	Sinclair Training	03/06/2018 03/05/2019	Sinclair Community College	Dudley, Emily S.	\$2,670	Wright State University will provide hands on training with laboratory animals to Sinclair Community College students.

**October 18, 2018
Wright State University
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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
New Other Gov't. Agreement	Breastfeeding Institute at Wright State University (BIWSU)	10/01/2017 09/30/2018	Public Health Dayton and Montgomery County	Ellison, Sylvia A. Smith, Linda J	\$22,824	Provide support to PHDMC for achieving the maternal and child health goal of an increased breastfeeding friendly environment.
New Educ. Inst. Subagreement	2018 Ohio Medicaid Group VIII Study	01/01/2018 06/30/2018	Ohio State University	Thackeray, Jonathan D	\$16,500	This study is a follow-up to the 2016 Ohio Medicaid Group VIII Study and will examine enrollment and dis-enrollment patterns among the ACA-associated Medicaid enrollees, factors associated with these enrollment patterns, and the extent to which Group VIII Medicaid enrollment has translated into improvements in health, economic stability, and workforce participation.
New Non-Profit Grant	Southwest Ohio HPAC Scholars' Day	04/01/2018 04/30/2018	HealthPath Foundation of Ohio	Pascoe, John M.	\$1,000	This event serves as a culminating experience for the grant year, by hosting a combined presentation of HPAC Scholars' projects from the Miami Valley, Wright State Lake Campus area and greater Cincinnati area at Wright State University Student Union on Sunday, April 15, 2018.
Academic Support						
Amendment Federal Grant	Aerospace Medicine Training for the Era of Pioneering a Journey to Expanding Human Space Flights Beyond ISS and LEO	10/01/2017 09/30/2018	National Aeronautics and Space Administration	Jarnot, Thomas F.	\$135,000	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.

**October 18, 2018
Wright State University
Grants and Contracts Awarded
Since the April 27, 2018 Board of Trustees Meeting**

Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Continuation Federal Grant	Accelerating Primary Care Transformation Wright (APCT-Wright)	07/01/2018 06/30/2019	DHHS, Health Resources and Services Administration	Binder, Stephen Bruce Bowman, Marjorie A.	\$499,373	The project team will accelerate the transformation of primary care at Wright State in Family Medicine, Pediatrics, Internal Medicine and the Pediatric and Family Medicine NP programs through faculty development for community preceptors, enriched curriculum for residents and NP students, and the creation of an academic primacy care fellowship.
New Educ. Inst. Subagreement	Clinical Consultant for SIM Self-Evaluation	05/09/2018 01/31/2019	Ohio State University	Thackeray, Jonathan D	\$27,516	The GRC clinical consultant will provide clinical expertise to assist GRC leadership with administration of the SIM Self-Evaluation, specifically in evaluation of the Ohio Comprehensive Primary Care (CPC) and episode-based payment models.

**October 18, 2018
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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
College of Education and Human Services						
Basic Research						
New State Grant	The Health and Opioid Prevention Education with Supports (HOPES) in Schools	06/12/2018 06/30/2021	Ohio Department of Higher Education	Lorson, Kevin Huber, Mary Josephine	\$502,000	The project will expand the work of the HOPE curriculum to provide schools with a tool to develop school-wide drug prevention and education plans. The project also develops a resource for teachers and schools to support students experiencing opioid-related trauma in their family or community.
Applied Research						
Amendment Educ. Inst. Subagreement	The Learning and Working During the Transition to Adulthood Rehabilitation Research and Training Center	09/30/2016 09/29/2018	University of Massachusetts Medical School	Huber, Mary Josephine	\$15,064	As a part of the proposed research center, Wright State researchers will explore and develop a peer support intervention to help college students with serious mental health conditions (SMHC) succeed academically in school.
Public Service						
Amendment Educ. Inst. Contract	Dayton Regional Science, Technology, Engineering, and Mathematics School Services Agreement	07/01/2018 06/30/2019	Dayton Regional Science, Technology, Engineering, and Mathematics (STEM) School	Keferl, Joseph E.	\$3,677,486	These funds will support 2018/2019 salaries and fringe benefits of STEM school personnel who are paid through WSU.
New Non-Profit Subagreement	Community-level Response to the Opioid Crisis	06/01/2018 11/30/2019	McKinley Hall	Bashir, Huma A	\$6,000	Wright State personnel will provide evaluation efforts to the lead applicant organization for work leading a community-level response to the opioid epidemic in Clark County.

**October 18, 2018
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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
College of Engineering and Computer Science						
Basic Research						
Amendment Federal Coop. Agrmt.	Alternate Tinnitus Management Techniques Developed Using Blood-Oxygen-Level-Dependent MRI with Neurofeedback	05/23/2016 05/22/2019	DoD, Air Force, Air Force Research Laboratory	Sherwood, Matthew Scott	\$563,612	The overall objective of this project is to develop a training regimen to teach military personnel brain control techniques that can be used during and after deployment to induce neuroplastic remapping of the auditory cortex and minimize the symptoms of tinnitus.
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.	\$430,000	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 Educ. Inst. Subagreement	C2PNT FRN Cycle II: Intelligent Channel Sensing	09/19/2017 01/20/2019	Ohio University	Wu, Zhiqiang	\$257,324	This multi-university project focuses on secure relays in a global communications network, exploiting channel sensing, cognitive networking, machine learning, and established relationships with multiple federal agencies and Ohio-based industry to boost the amount of space intelligence delivered to the Earth-end stations, while creating new job opportunities and training manpower.
Amendment Non-Profit Subagreement	Mission-Directed Learning Environment	09/19/2016 09/07/2018	Wright State Applied Research Corporation	Ganapathy, Subhashini	\$196,216	The focus of the research work is to develop and execute test, evaluation, verification, and validation (TEV&V) activities and research new models and technologies that support personalization for HMT training.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Amendment Educ. Inst. Subagreement	Modeling Social Behavior for Healthcare Utilization and Outcomes in Depression	07/01/2018 06/30/2019	Cornell University	Sheth, Amit	\$178,192	The WSU researchers will implement an analytical platform integrating Web search, social media, environmental conditions, and healthcare data.
Amendment Industrial Subagreement	Power and Thermal Management System for Hypersonic Vehicles	12/19/2017 12/31/2018	Acumentrics SOFC Corp.	Roberts, Rory A.	\$156,914	This project focuses on the development and testing of a bench top power and thermal management system for hypersonic vehicles.
Amendment Federal Contract	SIRCUS TO2: Comprehensive Learning Objectives for Warfighter Needs (CLOWN)	03/31/2016 01/04/2021	DoD, Air Force, Air Force Research Laboratory	Rigling, Brian D. Garber, Fred D. Saville, Michael Shaw, Arnab K. Wischgoll, Thomas Rizki, Mateen M.	\$140,000	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 Industrial Subagreement	Design Framework and CAD Tools for Hardware Security and Trust	06/07/2017 11/01/2020	EDAptive Computing, Inc.	Emmert, John M.	\$120,000	With Global Foundries taking over IBM's Trusted Foundry, hardware security is becoming a serious issue. This effort mitigates some of the risks and enables more trusted integrated circuits.
Amendment Industrial Subagreement	Performance Understanding for Layered Sensing Exploitation: Valuable Insights Through Analysis of Layered Sensing	06/01/2017 03/16/2020	InfoSciTex	Rigling, Brian D.	\$100,000	The primary goal of this program is to develop fundamental research tools in the areas of sensor exploitation algorithm performance understanding and performance prediction.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Amendment Non-Profit Subagreement	A Thermo-fluids Analysis of Aircraft Thermal Energy Management and Precision Airdrop	08/01/2017 02/15/2019	Dayton Area Graduate Studies Institute	Huang, George	\$96,296	The goal of this project is to provide technical analysis and support to the existing efforts in the Control Design and Analysis Branch of Air Force Research Center (RQQA).
Amendment Non-Profit Subagreement	Intelligent Modeling of Vehicle Firmware	01/01/2018 07/01/2019	Transportation Research Center Inc.	Zhang, Junjie	\$75,000	The goal of this project is to model firmware missions and identify anomaly implementation of firmware missions (e.g., falsified emission controllers).
Amendment Non-Profit Subagreement	Advanced Integrated Smart Cell Onboard Printed Electronics Development	05/09/2018 05/08/2019	Dayton Area Graduate Studies Institute	Chen, Chien-In Henry Thompson, Joshua W.	\$52,260	This research will focus on designing and depositing printed electronics integrated directly onto the packaged cell surface to provide cell monitoring of temperature, voltage, as well as simple, standardized communication.
Amendment Educ. Inst. Subagreement	Probabilistic Design Criteria for Decision Making with Uncertainty	09/01/2017 08/30/2019	University of Dayton	Bae, Harok	\$30,000	The researchers will develop methods, processes, tools and guidelines for developing and creating probabilistic design criteria and a common sense approach for how to create the same.
Amendment Industrial Subagreement	Object Physics for Exploitation and Recognition Advancements (OPERA)	07/27/2015 07/01/2019	Leidos, Inc.	Rigling, Brian D.	\$25,000	The PI will provide research support to the sponsor related to bi-static radar systems.
Amendment Industrial Subagreement	Aeromechanical Investigation of Turbine Engine High Speed Compressors- Phase I/Phase II)	06/01/2016 04/30/2019	Universal Technology Corporation	Wolff, J. Mitch	\$12,933	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.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Amendment Industrial 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.	\$3,410	Wright State University 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	07/01/2018 06/30/2019	DHHS, National Institute of Child Health and Human Development	Sheth, Amit	\$295,924	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.
Continuation Non-Profit Grant	Identification and Assessment of Hemodynamic Predictors of Bicuspid Aortic Valve Aortopathy	01/01/2018 12/31/2018	American Heart Association - Great Rivers Affiliate	Sucosky, Philippe	\$76,998	The researchers will investigate whether the abnormal blood flow produced by the bicuspid aortic valve is able to promote aortic dilation in the absence of any underlying genetic defect.
Continuation Non-Profit Subagreement	Multi-Fidelity Analysis Methods for Multidisciplinary Design Optimization	05/01/2017 07/31/2018	Dayton Area Graduate Studies Institute	Roberts, Rory A. Henz, Alexander	\$52,260	The researchers will work on the development of transient design optimization methodology for air vehicles with implicit path dependent behavior in the time domain.
Continuation Non-Profit Subagreement	First Principles Calculations of Solution Hardening Kinetics	05/01/2018 04/30/2019	Dayton Area Graduate Studies Institute	Farajian, Amir Wirth, Lucas J	\$52,260	The aim of this project is the accurate quantum mechanical calculations of diffusion processes in metal and alloys, and the resultant changes in mechanical properties.
Continuation Non-Profit Subagreement	Stochastic Metamodeling for Design Validation	10/01/2018 09/30/2019	Dayton Area Graduate Studies Institute	Bae, Harok Beachy, Atticus	\$52,260	The goal of this project is to streamline the adaptive and interactive computational framework of addressing the verification and validation in the design exploration.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Continuation Non-Profit Subagreement	Multiscale, Multiphysics, Multifidelity Modeling of Aircraft Power and Thermal Systems	05/01/2017 07/31/2018	Dayton Area Graduate Studies Institute	Roberts, Rory A. Wolff, J. Mitch Butt, Nathaniel	\$44,130	Using the T2T model, the vehicle level thermal effects will be observed and the aircraft can be optimized on a systems level instead of a subsystems level.
Continuation Educ. Inst. Agreement	Collaborative Research: A Cellworks Optimization Method for Air Vehicle Design	03/01/2018 02/28/2019	University of Hawaii at Manoa	Grandhi, Ramana V.	\$10,000	This project focuses on the development and demonstration of a biologically inspired methodology for the automated, multi-disciplinary and multi-objective design of air vehicles.
New Federal Coop. Agrmt.	Science, Technology and Research for Exploiting Sensor Systems (STRESS)	03/20/2018 05/19/2020	DoD, Air Force, Air Force Research Laboratory	Rigling, Brian D. Garber, Fred D.	\$2,179,321	This project will continue the ATRC summer student program and seek to expand its reach to all divisions of the AFRL Sensors Directorate.
New Industrial Subagreement	Secure Engineering of Trusted Systems: Risk Awareness Framework for Infectious Disease (TO4)	03/20/2018 07/30/2019	EDaptive Computing, Inc.	Emmert, John M.	\$949,149	Researchers will develop methodologies, technologies, and tools in order to assist federal agencies in trusted design, development, modification, and implementation of relevant sensor, situational awareness, analytics, and advanced environmental sensors with reduced/mitigated vulnerabilities and improved protection technologies.
New Federal Grant	Toward Undifferentiated Cognitive Agents: Determining Gaps in Comprehension	07/20/2018 07/19/2021	DoD, Air Force Office of Scientific Research	Hitzler, Pascal	\$148,605	The researchers will investigate how cognitive agents can be made to adapt to given instructions, within a flexible scenario.
New Industrial Subagreement	G-Load Test for Heat Pipes at AFRL for Raytheon	04/16/2018 03/22/2019	Universal Energy Systems, Inc.	Thomas, Scott Keith Wolff, J. Mitch	\$127,000	The purpose of this study is to determine the performance of a heat pipe thermal management system when subjected to G-loads.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
New Industrial Subagreement	Training for Resilient Cyber Physical Systems Design, Development, and Testing	02/16/2018 09/29/2018	Knowledge Based Systems, Inc.	Zhang, Junjie Ganapathy, Subhashini Saunders, Vance M.	\$111,355	The WSU researchers will offer expertise of training for resilient cyber physical systems design, development, and testing.
New Federal Coop. Agrmt.	A Combined Experiment-Multiscale Simulation Study of 2D Nanomaterials Liquid-phase Exfoliation	08/01/2018 07/31/2019	DoD, Air Force Office of Scientific Research	Farajian, Amir Pupysheva, Olga	\$91,055	The researchers will use the equipment to analyze novel aspects of processing two-dimensional materials.
New Educ. Inst. Subagreement	Shear forces regulate endothelial and fibroblast cross talk via inflammation to produce fibrosis	07/01/2018 05/31/2019	Rice University	Sucosky, Philippe	\$69,504	The researchers will investigate if mechanical abnormalities in the left ventricle promote DSS formation.
New Non-Profit Agreement	Clustering and Visualization of Geotagged Text Data for Crisis Management	08/27/2018 08/26/2019	Dayton Area Graduate Studies Institute	Chung, Soon M. Crossman, Nathaniel	\$52,260	The researchers will develop efficient clustering algorithms based on the content of geotagged text messages in order to facilitate the identification of the topics of each cluster and visualize the topics.
New Educ. Inst. Subagreement	Ontology Modeling for the Historic Slave Trade	04/01/2018 06/30/2019	Michigan State University	Hitzler, Pascal	\$46,473	The Wright State researcher will develop a set of ontology modules for the purpose of data integration in the domain of the history of the slave trade.
New Non-Profit Subagreement	Improving Analyst Performance through HITL Autonomy Training	05/07/2018 05/06/2019	Dayton Area Graduate Studies Institute	Fendley, Mary E. Baird, Isabelle C	\$44,130	The researchers will investigate the source of error within the interconnectedness of the human, environment, and technology existing in the HITL ML data training approach.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
New Non-Profit Agreement	Micro-Structured Devices for Nano- Particle Toxicity Screening	08/15/2018 08/14/2019	Dayton Area Graduate Studies Institute	Goswami, Tarun Brooks, Zachary E	\$44,130	Nanotechnology as a method of medicine is growing in prominence and demand. In order to maximize nanoparticles' capabilities, extensive research and experimentation must be performed.
New Non-Profit Agreement	Advanced Biomaterials Characterization Techniques at the Interface of Structural Biology and Materials	08/27/2018 08/26/2019	Dayton Area Graduate Studies Institute	Cao, Caroline Goswami, Tushar	\$44,130	This research will focus on developing and applying cutting edge characterization tools to biologically-based materials of Air Force relevance.
New Non-Profit Subagreement	Unsteady Aerodynamics in Low- Pressure Turbines	05/01/2018 04/30/2019	Dayton Area Graduate Studies Institute	Wolff, J. Mitch Donovan, Molly H	\$44,130	The researchers will perform experimental and computational investigation in the unsteady aerodynamics associated with low pressure turbine (LPT) performance losses.
New Non-Profit Subagreement	Development of a Morphing Wing Control System using CFD Simulation and Machine Learning	05/01/2018 04/30/2019	Dayton Area Graduate Studies Institute	Slater, Joseph C. Loranger, Gabriel	\$44,130	The purpose of this project is to develop an automated control system to manage the shape of morphing wings to improve multiple aspects of aircraft performance.
New Non-Profit Agreement	Fatigue Testing and Surface Characterization of a Structurally Relevant Test Coupon Built using Additive Manufacturing	08/01/2018 07/31/2019	Dayton Area Graduate Studies Institute	Gockel, Joy E. Tatman, Eric	\$44,130	The researchers will use custom structurally relevant test geometries to determine the effect of as-built additive manufacturing surfaces on fatigue.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
New Non-Profit Subagreement	Detection and Segmentation of Dynamic Human Signatures from Clustered LIDAR Streams	09/01/2015 12/31/2018	Dayton Area Graduate Studies Institute	Chung, Soon M. Abdel-Latif, Hamza M.	\$43,500	The goal of this project is to develop a theoretical framework and computer algorithm to autonomously sense the presence of human activities and segment out individual human signatures from streaming scenes of clustered LIDAR data.
New Non-Profit Subagreement	Fan & Compressor 3-D Aerodynamics	03/15/2018 05/15/2019	Dayton Area Graduate Studies Institute	Wolff, J. Mitch	\$29,630	The researchers will work to expand the current state of the art in preliminary design tools to enable them to be used in off-design calculations.
New Non-Profit Agreement	Development of a Vehicle Level Integration Tool for Aircraft Energy Management	05/01/2018 05/31/2019	Dayton Area Graduate Studies Institute	Roberts, Rory A. Ellicott, Andrew	\$27,713	The goal of this project is to develop a tool that will provide for more intelligent use of the power and thermal capabilities on board an aircraft.
New Non-Profit Subagreement	Stochastic Metamodeling for Design Validation	05/01/2017 09/30/2019	Dayton Area Graduate Studies Institute	Bae, Harok	\$15,372	The goal of this project is to streamline the adaptive and interactive computational framework of addressing the verification and validation in the design exploration.
New Educ. Inst. Subagreement	Travel reimbursement for C2PNT FRN Cycle II Intelligent Channel Sensing	05/01/2017 01/20/2019	Ohio University	Wu, Zhiqiang	\$4,220	Funds provided for travel to meetings.
New State Subagreement	SAE Aero Design	08/01/2017 04/30/2018	Ohio Space Grant Consortium	Thomas, Scott Keith Lemmon, Samuel	\$3,087	The goal of this project is to design and build a remote-controlled aircraft with certain limitation that will meet mission requirements.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Applied Research						
Amendment Industrial Contract	Transitioning ShadowBox to the COP Community	10/01/2014 06/01/2018	Center for Operator Performance	Gallimore, Jennie J.	\$7,833	The goal of this project is to develop user's manual and train the trainer for ShadowBox training methodology for use in the petrochemical industry.
New Federal Grant	BD Spokes: MEDIUM: MIDWEST: Collaborative: Community-Driven Data Engineering for Opioid and Substance Abuse in the Rural Midwest	09/01/2018 08/31/2021	National Science Foundation	Sheth, Amit	\$120,000	A scalable, flexible, and connectivity-rich data-driven BIGDATA (BD) approaches can help with societal problems, including the opioid epidemic ravaging our region. Kno.e.sis will lend relevant expertise/tools for opioid epidemic monitoring.
New Industrial Agreement	Jewelry and watch retail auction data analytics and marketing design	09/01/2018 08/31/2020	Peden Consulting	Zhang, Xinhui	\$120,000	This study will provide jewelry and watch retail analytics and will utilize data mining techniques for practical business operations for luxury, yet overstocked, items.
New Industrial Subagreement	Rapid Assessment of Structural Vulnerability SBIR AF161-031	01/24/2018 01/23/2019	Skyward, Ltd.	Rosencrantz, Stephen D	\$79,044	The PI will develop and implement a methodology to rapidly determine residual strength/vulnerability due to damage caused by weapons effects in support of aircraft and threat development, LFT&E vulnerability analysis and testing.
New Non-Profit Subagreement	Research and Development Analytics and Landscape Mapping to Improve and Accelerate Technology Transfer	05/14/2018 04/15/2019	Wright State Applied Research Corporation	Raymer, Michael L.	\$17,500	The researchers will work on the development and application of methods in the field of data analytics to identify technologies and trends that have the potential to accelerate technology transfer between WSU and the United States Air Force.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Public Service						
New Federal Coop. Agrmt.	Support for ASM International Teacher's Materials Camp in the Dayton Metro Region	06/15/2018 06/14/2019	DoD, Air Force Office of Scientific Research	Young, Henry Daniel Srinivasan, Raghavan	\$12,600	This funding will be used to partially support the annual Teacher's Materials Camp located in Dayton, Ohio.
Student Aid						
New State Subagreement	Analysis of Requirement or Specification of a Rotational Stage for the Centrifuge Table at AFRL	05/01/2018 12/31/2018	Ohio Space Grant Consortium	Thomas, Scott Keith Phillipp, Michael J	\$6,000	The researchers will evaluate a thermal management device to determine if it can operate while attached to an air-to-air rocket.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
College of Liberal Arts						
Applied Research						
Continuation Non-Profit Grant	Writing Experience and Outcomes of Dual Enrollment Writing Students: A State- Wide Study	08/01/2018 07/31/2019	Council of Writing Program Administrators	Hall, Ashley Elizabeth	\$3,800	The PI's mixed-methods study will address a gap in the research on DC/CE programs by collecting and analyzing data exploring the impact of the CWPA Position Statement on DC/CE FYW.
Public Service						
Amendment State Subagreement	Southwest Ohio Regional Prevention Coordinator Proposal	07/01/2018 06/30/2019	Ohio Department of Job and Family Services	Dockery, Jane L. Murray, Carol S.	\$465,428	The Applied Policy Research Institute will oversee the administrative functions of the Southwest Ohio Regional Prevention Council and, in partnership with stakeholders, operationalize activities to address child abuse and neglect in the region.
Amendment Educ. Inst. Subagreement	Evaluation of Northwest State Community College's Trade Adjustment Assistance Community College and Career Training (TAACCCT) Grant	10/01/2014 09/30/2018	Northwest State Community College	Dockery, Jane L.	\$8,802	Wright State University will serve as the third-party evaluator for the TAACCCT grant to Northwest State Community College (NSCC), providing formative and summative assessments of the I AM iSTAR program.
Amendment State Subagreement	OCTF Regional Surveys and Dashboard Development	07/01/2018 10/31/2018	Ohio Department of Job and Family Services	Dockery, Jane L. Murray, Carol S.	\$7,767	OCTF requests APRI to conduct household surveys in six regions across Ohio and develop indicators and graphics for a dashboard, and desires WSU bid support to identify a dashboard vendor.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
New Other Gov't. Subagreement	Greene County Juvenile Court RECLAIM: Evaluation and Quality Assurance Project	06/01/2018 06/30/2020	Greene County Juvenile Court	Dockery, Jane L. Murray, Carol S.	\$39,916	The goal is to guide the data tracking system, implement quality assurance protocols, and conduct a program evaluation of the Greene County Juvenile Court Ohio DYS RECLAIM Grant.
New State Contract	Facilitation Support to the Ohio Strong Start to Finish Data Implementation Forum Group	06/19/2018 06/30/2019	Ohio Department of Higher Education	Dockery, Jane L.	\$10,500	The Data Implementation Forum is charged with developing collaborative solutions to defining, collecting, and reporting data as well as determining consistent ways to track student participation, outcomes, and completion in mathematics and English.
Student Aid						
Continuation Other Gov't. Contract	Greene County Records Center and Archives Student Internship	12/23/2017 12/30/2017	Greene County Records Center and Archives	Swanson, Drew A.	\$132	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.

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College of Nursing and Health

Basic Research

New Non-Profit Grant	Evaluation of Two Simulation Methods Preparing Nurses for Disasters	09/01/2018 08/31/2019	Association of Community Health Nursing Educators	Smith, Sherrill Jeanne	\$2,500	The purpose of this study is to evaluate the difference between the use of virtual reality-based simulation to traditional mannequin-based simulation in the development of the disaster skill of decontamination.
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Academic Support

Supplement Federal Grant	Veteran Bachelor of Science in Nursing (VBSN)	07/01/2018 06/30/2019	DHHS, Health Resources and Services Administration	Smith, Sherrill Jeanne Farra, Sharon L.	\$316,716	The purpose of the Wright State University Veteran's Bachelor of Science Nursing Program (WSU VBSN) option is to facilitate the transition of military members with healthcare experience to professional nurses through a program recognizing the unique needs of the veteran student.
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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
College of Science and Mathematics						
Basic Research						
Amendment Industrial Subagreement	Electrical and Optical Characterization	09/01/2016 05/19/2021	Wyle Laboratories	Look, David C.	\$303,887	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 Federal Grant	Lapses of Attention Predicted in Semi- Structured Ecological Settings (LAPSES)	11/01/2015 12/31/2018	DoD, Office of Naval Research	Juvina, Ion Harel, Assaf	\$240,000	The aim of this project is to study the fundamental mechanisms of attention.
Amendment Non-Profit Subagreement	Applications in Computational and Experimental Electromagnetics (ACE-EM)	03/01/2018 02/28/2019	Wright State Applied Research Corporation	Deibel, Jason A. Sharma, Amit Raj	\$100,073	The project will study the fundamental interactions between electromagnetic waves and antenna structures in the presence of plasmas.
Amendment Federal Grant	The Role of Dynamic Representational Networks in Expertise in Visual Scene Recognition	09/01/2016 08/31/2019	DoD, Office of Naval Research	Harel, Assaf	\$95,000	The goal of the present study is to elucidate the mechanisms underlying the acquisition of expertise in scene analysis, and to establish the importance of changes in structure and dynamics of neural representations over multiple spatiotemporal scales as novel markers of expertise.
Amendment Educ. Inst. Subagreement	MAVEN Extended Mission for FY17-18	07/01/2011 09/30/2018	University of Colorado	Fox, Jane Lee	\$93,721	Wright State will participate in the MAVEN (Mars Atmosphere and Volatile EvolutionN) mission in terms of providing models to help understand the atmosphere of Mars, the escape rates of species and aid in understanding the data from the instruments on the spacecraft.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Amendment Industrial Subagreement	Development and Application of a Hydrothermal Atomic Force Microscope	06/15/2012 04/30/2019	Oak Ridge National Laboratory	Higgins, Steven R.	\$72,000	The Principal Investigator will continue to assist Oak Ridge National Laboratory in the development and application of novel hydrothermal atomic force microscopic methods to investigate the morphological and chemical controls on mineral dissolution and precipitation reactions in aqueous solutions under geological reservoir conditions.
Amendment Educ. Inst. Subagreement	ASSET 3 Support	05/15/2017 05/14/2019	University of Maryland	Shalin, Valerie L.	\$48,442	The PI will support the study of communications between trainees and mentors on a surgical task.
Amendment Federal Grant	Regularized adaptive methods for classes of nonlinear partial differential equations	08/01/2018 07/31/2018	National Science Foundation	Pollock, Sara	\$42,950	In this project, the PI will develop efficient computational methods for challenging nonlinear problems that arise in physical and scientific modeling. This work will develop computational regularization techniques with supporting theory, to approximate solutions to a variety of nonlinear partial differential equations.
Amendment Non-Profit Subagreement	Applications in Computational and Experimental Electromagnetics (ACE-EM)	05/01/2017 11/30/2019	Wright State Applied Research Corporation	Deibel, Jason A. Barton, Christopher C. Sharma, Amit Raj Tebbens, Sarah	\$25,000	The project will study the fundamental interactions between electromagnetic waves and antenna structures in the presence of plasmas.
Amendment Industrial Subagreement	Terahertz Spectroscopic Chemical Sensor for Analysis of Fatigued Human Breath	02/29/2016 08/28/2018	Universal Technology Corporation	Medvedev, Ivan	\$18,500	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.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Continuation Federal Grant	Prevention of Adenovirus Pathogenesis Through Downregulation of the Apical Adenovirus Receptor	09/01/2018 08/31/2019	DHHS, National Institute of Allergy and Infectious Diseases	Excoffon, Katherine Voss, Daniel T. Sharma, Priyanka	\$375,000	Wild type adenovirus is a significant civilian and military threat for acute respiratory disease and highly pathogenic variants emerge each year, but there is no effective therapy. The work is relevant to public health because it is expected to lead to new ways to block wild type adenovirus infection and potentially save the lives of people with life-threatening adenovirus infections.
Continuation Non-Profit Subagreement	Goal-driven Agile Teams and Environments (GATE)	05/05/2018 06/06/2019	Wright State Applied Research Corporation	Jovina, Ion	\$19,102	The WSRI/WSU team will develop a prototype implementation that supports agile collaborative problem-solving within mixed-initiative teams of humans and artificial agents under complex worlds that change in unexpected ways.
New Federal Contract	WSU Students ASK... A Success & Scholarship Program for Students Applying Scientific Knowledge	03/01/2018 02/28/2023	National Science Foundation	Deibel, Jason A. Traxler, Adrienne L.	\$997,589	The Applying Scientific Knowledge Student Success and Scholarship program will provide financially at-risk science and mathematics majors, starting in their second year, with a team-driven experiential learning and research program.
New Federal Grant	Dual Targeting Redox- active Gold(I) Complexes	07/05/2018 06/30/2021	DHHS, National Institute of General Medical Sciences	Arumugam, Kuppuswamy	\$462,195	The goal of this project is to make a series of drugs that can be adjusted to exclusively amplify specific amounts of reactive oxygen species and protein inhibition within cancer cells to trigger programmed cell death.
New Federal Grant	Determining if there is a Primary Myopathy in Huntington's Disease	07/01/2018 06/30/2021	DHHS, National Institute of Neurological Disorders and Stroke	Voss, Andrew A.	\$454,967	The PI will determine if there is a primary skeletal muscle defect in Huntington's disease that helps explain the motor symptoms of the disease and presynaptic depression.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
New Federal Contract	Defects and Dopants in Critical Wide Band Gap Semiconductors – ZnO, InGaZnO, Ga2O3 and ScN	07/01/2018 06/30/2019	National Science Foundation	Look, David C.	\$187,000	The PI will explore the nature of native point defects in ZnO, Ga2O3, InGaZnO, and ScN as well as both ZnO and Ga2O3 nanowires and their impact on carrier density, mobility, and interface transport.
New Non-Profit Subagreement	Hybrid Forecasting Competition	10/01/2017 11/06/2018	Wright State Applied Research Corporation	Juvina, Ion	\$67,379	The researchers will develop a flexible methodology for combining machine and human forecasting.
New Federal Coop. Agrmt.	The extent of attack, determinants of susceptibility, and tolerance of cultivated olive, <i>Olea europaea</i> to emerald ash borer	08/30/2018 08/29/2019	U.S. Department of Agriculture	Cipollini, Donald F.	\$67,058	The PI will examine variation in the attractiveness, susceptibility, and tolerance of several major cultivars of cultivated olive trees to emerald ash borer in the greenhouse and laboratory at Wright State University using both cut stems from field grown trees and live potted trees.
New Non-Profit Grant	The regulatory effect of exercise on circulating EPC-EXs and its implication in ischemic stroke	07/01/2018 06/30/2019	American Heart Association - National	Wang, Jinju Bihl, Ji Chen	\$54,316	Ischemic stroke is the leading cause of disability and mortality in the worldwide with few treatment options. Exercise has been widely proven against cardiovascular diseases, including ischemic stroke.
New Non-Profit Subagreement	Advanced Optical Materials for Next Generation High Powered Lasers	05/07/2018 05/06/2019	Dayton Area Graduate Studies Institute	Kozlowski, Gregory	\$52,260	The researchers will examine optical materials for several important emerging high powered laser systems under development for Air Force applications.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
New Non-Profit Subagreement	Human-Centered Science Laboratory (HCSL) Support of AFRL Activities	03/25/2018 03/24/2019	Wright State Applied Research Corporation	Schneider, Tamera	\$33,839	The purpose of the Human-Centered Science Laboratory (HCSL) is to support research and development activities to advance the mission of the Human Trust and Interaction Branch (711 HPW/RHXS), Human Insight and Trust (HIT) Team, to foster human-robot teaming, methods to calibrate trust, and methods to foster transparency in human-machine contexts.
New Industrial Subagreement	LWIR and THz Frequency Generation with Quantum Dots	01/10/2018 11/15/2018	Clarkson Aerospace Corp	Brown, Elliott	\$25,000	The primary goal of this joint research effort is to investigate new ways of generating LWIR or THz radiation using the DFG technique in quantum dot structures.
New Non-Profit Grant	Culture Clash: An Alternative Model for Microbiology Instruction	07/30/2018 12/31/2018	American Society of Clinical Pathology	Wissman, Amy Rouhana, Luara V	\$2,500	The project would allow WSU to begin and continue an alternative model of Microbiology instruction for years to come without compromising student experience or graduate quality.
New State Grant	Determining behavior- specific habitat requirements and use of the endangered Myotis sodalis in the Wright State University woods	05/15/2018 04/30/2019	Ohio Biological Survey	Rude, Megan R Bahn, Volker	\$500	This study will provide the first analysis of MYSO behavior and habitat use which can be used to implement new management practices for conservation.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
Applied Research						
Amendment Federal Grant	Cross Validation of the FAA Standard Color Palette and Development of Guidelines for Testing Displays: Phase II	07/01/2018 12/31/2019	U.S. Department of Transportation, Federal Aviation Administration	Bennett, Kevin B.	\$33,896	The PI is using an enhanced version of the Air Traffic Controller Color Vision (ATCOV) test to ensure the colors are discriminable, recognizable, legible, and conspicuous for color-normal Air Traffic Control Specialists (ATCSs) and ones with color-vision deficiencies (CVDs).
New Educ. Inst. Subagreement	Maumee River sediments as a nitrogen source or sink to Lake Erie: the competing roles of ammonium recycling and denitrification	06/18/2018 06/17/2019	Ohio State University	McCarthy, Mark J.	\$39,998	This project will evaluate the importance of Maumee River sediments in either exacerbating eutrophication by recycling nutrients or mitigating eutrophication via microbial nitrogen removal processes.
New Industrial Subagreement	Thermally Stimulated Current Sample Analysis	07/01/2017 06/30/2018	Wyle Laboratories	Look, David C.	\$30,000	Thermally Stimulated Current Sample Analysis
New Non-Profit Grant	Nitrification in Three Eutrophic Lakes: The search for new nitrifiers that thrive under extreme competition	07/01/2018 06/30/2019	Eppley Foundation for Research, Inc.	Newell, Silvia Elena	\$14,999	The PI will prepare and sequence environmental DNA, with a focus on the nitrogen cycling microbial community, from three hypereutrophic lakes located in different climate zones and watersheds.
New Non-Profit Coop. Agrmt.	Dairymen's Natural Resources Stewardship	06/01/2018 12/31/2019	Dairymen's, Inc.	Rooney, Thomas	\$6,962	This award supports ongoing adaptive management of natural resources in a public-private partnership.

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Type	Title	Duration	Sponsor	Investigator(s)	Amount	Abstract
New Non-Profit Grant	Tracking Watershed Sources of Phosphorus Input to Caesar's Creek Lake Near the City of Wilmington Municipal Water Intake	04/23/2018 05/15/2019	Clinton Streamkeepers	McGowin, Audrey E.	\$4,460	The study is an investigation into the sources of phosphorus that are leading to harmful algal blooms (HABs) in summer months. These HABs have released toxins that have entered the City of Wilmington water supply.
New Non-Profit Contract	Nitrate/Nitrite Analytical Services	07/01/2017 06/30/2018	Finger Lakes Institute	McCarthy, Mark J. Newell, Silvia Elena	\$3,550	Nitrate/Nitrite Analytical Services
Public Service						
Amendment Federal Grant	Intergovernmental Personnel Act (IPA) assignment of Dr. Tamera Schneider from Wright State University to the National Science Foundation	08/10/2018 08/09/2019	National Science Foundation	Schneider, Tamera	\$152,490	The assignee will serve as Deputy Division Director for the Behavioral and Cognitive Sciences Division at the National Science Foundation.
New Federal Contract	Support for the 20th International Symposium on Aviation Psychology	09/01/2018 08/31/2019	National Science Foundation	Tsang, Pamela S.	\$27,142	This PI was awarded funds to support the 20th International Symposium on Aviation Psychology (ISAP) to be held on May 7-10, 2019 in Dayton, Ohio.
Student Aid						
New Non-Profit Grant	Ohio Mining and Mineral Education Program	07/01/2017 06/30/2018	Ohio Mining & Mineral Education Program	Slattery, William	\$14,250	Ohio Mining and Mineral Education Program

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Lake Campus

Basic Research

Amendment State Subagreement	Nutrient and Sediment Retention Potential by Controlled Pond and Riparian Tile Buffer Systems	05/01/2017 05/31/2019	Ohio Environmental Protection Agency	Jacquemin, Stephen James	\$5,300	The purpose of this project is to provide nutrient, runoff, and sediment monitoring data to assess the efficiency of the use of a new sustainable agricultural technique - saturated riparian buffers.
New Educ. Inst. Contract	Collection of Fish Tissue in Association with the Wright State University – Lake Campus Grand Lake St. Mary's (Ohio) Fish Assemblage Monitoring Program	12/01/2017 09/30/2018	Wayne State University	Jacquemin, Stephen James	\$5,472	The one-year project will provide voucher specimens from the fish assemblage in Grand Lake St Mary's (northwest Ohio) for microcystin analysis at the Lumigen Instrument Center of Wayne State University.

Applied Research

Amendment Non-Profit Grant	Nutrient and Sediment Retention Potential of Treatment Trains in Grand Lake St. Marys Watershed	07/01/2017 06/30/2019	St. Marys Community Foundation	Jacquemin, Stephen James	\$36,666	The project extension is a continuation of work begun last year and will continue to assess the efficacy of two flow through wetland treatment train systems as well as expand the project scope to assess one additional flow through wetland as well as two in lake littoral wetlands to reduce nutrient and sediment loads prior to discharge into waters of the state.
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Library

Basic Research

New	Identifying Impact:	04/04/2018	Academic Library	Shannon, Mandy	\$1,975	This aim of this project is to identify whether and how individual research assistance from a subject librarian affects student success.
Non-Profit Grant	The Role of Library Research Appointments on Student Academic Achievement	04/03/2019	Association of Ohio			

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Multicultural Affairs and Community Engagement

Public Service

New	Ohio/Western	05/01/2018	Ohio/Western	Boaz, Matt	\$84,754	Wright State University will serve as the fiscal agent for the Ohio, Western Pennsylvania, West Virginia Higher Education Recruitment Consortium.
Non-Profit Contract	Pennsylvania/West Virginia HERC Consortium 2018 -2019	06/30/2019	Pennsylvania/West Virginia Higher Education Recruitment Consortium			

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Raj Soin College of Business

Public Service

Amendment	Small Business	10/01/2017	Ohio Development	Black, Donerik G.	\$124,057	These funds will be used to support Region 4 of the SBDC Consortium from October 1, 2017 to September 30, 2018.
State	Development Center,	09/30/2018	Services Agency			
Subagreement	FY2018					

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School of Professional Psychology						
Basic Research						
Amendment Federal Contract	"Up-Armoring" At-Risk Military Couples: A Prospective Study of Committed Romantic Relationships in Transition to Their First Permanent Duty Station	03/16/2017 03/16/2020	DoD, Air Force, Air Force Research Laboratory	Cigrang, Jeffrey A.	\$416,000	The PI will develop a series of tools and prevention programming to serve military couples at risk for negative relationship outcomes.
Applied Research						
Continuation State Contract	Research Evaluation Enhancement Projects (REEP) - MIH-19-38	07/01/2018 06/30/2019	Ohio Commission on Minority Health	Meyer, Cheryl	\$75,000	The purpose of this project is to provide technical assistance and evaluation support to the Ohio Commission on Minority Health's demonstration projects.
New Federal Coop. Agrmt.	Lesbian, Gay, and Bisexual Couples in the Military: A Post- DADT Examination of Relationship Health, Perceived Community Acceptance, and Mission Readiness	07/01/2018 06/30/2021	Army Medical Research Acquisition Activity	Cigrang, Jeffrey A.	\$1,053,094	The repeal of Don't Ask Don't Tell ended formal discrimination on the basis of sexual orientation in the U.S. Armed Forces. The overall goal of the proposed study is to deliver a current, evidence-based understanding of relationship health, perceived community acceptance, and mission readiness in active-duty Air Force LGB couples compared to heterosexual couples.
Instruction						
Continuation Non-Profit Contract	SOPP Internship: Eastway Behavioral Healthcare FY2018	07/01/2017 06/30/2018	Eastway Behavioral Healthcare	Schultz, Michelle S.	\$16,000	The sponsor will provide training and fiscal support for external rotations in the SOPP Doctoral Internship program during the 2017-2018 training year for one doctoral student.

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New Industrial Contract	SOPP Internship: CompDrug FY2018	07/01/2017 06/30/2018	CompDrug	Schultz, Michelle S.	\$16,000	The sponsor will provide training and fiscal support for external rotations in the SOPP Doctoral Internship program during the 2017-2018 training year for one doctoral student.
Student Aid						
New Industrial Contract	SOPP Practicum: CompDrug FY2018	07/01/2017 05/30/2018	CompDrug	Schultz, Michelle S.	\$8,320	The sponsor will provide direct client services training for one SOPP doctoral student.

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Student Affairs						
Public Service						
Continuation Non-Profit Contract	A Public Voice (APV 2017)	01/09/2017 10/01/2017	C.F. Kettering Foundation	Dustin, Jack L.	\$340	The PI and volunteer students will recruit residents and area leaders/policy makers to A Public Voice forums that will be focused on safety and justice. The Kettering Foundation will provide a guide for deliberation and survey questions that query deliberation participants about their views on safety and justices issues.
New State Subagreement	FY18 Exploration Project	04/20/2018 06/30/2018	Ohio Department of Higher Education	Steele-Middleton, Amanda	\$1,920	Wright State University will assist the sponsor by internally examining current practices for credit awarded through statewide agreements.
Institutional Support						
New Educ. Inst. Grant	Support for Infrastructure and Equipment Upgrades for Broadcasting Needs	04/22/2018 06/30/2019	Horizon League	Hill, Sara Jane	\$75,000	Pooled Horizon League funds distributed to Wright State University will be used to support equipment upgrades and broadcast streaming services.
New Non-Profit Grant	CoSIDA's Phil Langan Graduate Internship Grant	08/01/2018 05/31/2019	College Sports Information Directors of America	Noss, Bob J Hill, Sara Jane	\$15,000	Sponsor funding will support the position of an intern to assist with Wright State's Athletic Communication's efforts.

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New Non-Profit Subagreement	Wright State University Independent Scholars Network Raider Academy and Summer Mentoring Initiative for Summer 2018	06/08/2018 12/07/2018	Public Children Services Association of Ohio	Murray, Twila G	\$13,079	The project will allow the Wright State Independent Scholars Network to engage target population students through enrollment in and attendance at Raider Academy, prior to the start of their first fall semester, in order to provide early mentoring and a boost to academic success.
Student Aid						
Continuation Educ. Inst. Grant	Student Athlete Opportunity Funds 2018-2019	09/01/2018 08/31/2019	Horizon League	Brown, Joylynn M. Hill, Sara Jane	\$227,510	The SAOF fund is intended to provide direct benefits to student athletes or their families as determined by conference offices.

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University College

Institutional Support

New Educ. Inst. Subagreement	Lumina Talent Hub	12/15/2017 12/31/2020	Sinclair Community College	Littell, Timothy Jason Boaz, Matt	\$72,050	The Dayton/Montgomery County Talent Hub, designated as one of 17 communities nationally, maximizes and strategically expands existing postsecondary attainment strategies for under-represented, low-income, and adults students. Key partners include Sinclair Community College, Wright State University, University of Dayton, and Learn to Earn Dayton.
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Universitywide						
Public Service						
Continuation State Contract	Articulation and Transfer FY2019	01/05/2011 06/30/2019	Ohio Department of Higher Education	Sudkamp, Thomas A.	\$1,127,079	These funds will be used to operate the Articulation and Transfer Network, a consortium appointed by the Chancellor at the Ohio Department of Higher Education.
Continuation State Contract	Articulation and Transfer FY2018	01/05/2011 06/30/2018	Ohio Department of Higher Education	Sudkamp, Thomas A.	\$12,700	These funds will be used to operate the Articulation and Transfer Network, a consortium appointed by the Chancellor of the Ohio Board of Regents.
New Non-Profit Grant	Tackling Transfer: Workshops on Essential Transfer Practices for Two-and-Four-Year Colleges	09/01/2017 12/31/2017	Ohio Association of Community Colleges	Sudkamp, Thomas A.	\$5,000	Funding will support the efforts to implement two one-day workshops on implementing essential transfer practices, and assessment on the work to implement essential transfer practices.
New State Subagreement	Travel Support for Perkins SCTAI/CT2 Compliance	07/01/2017 06/30/2018	Ohio Department of Higher Education	Sudkamp, Thomas A.	\$5,000	Funds awarded are to support Secondary Career-Technical Alignment Initiative staff travel for Perkins program-related compliance.
New State Subagreement	Supportive Effort for the Ohio Department of Higher Education's Carl D. Perkins Grant	04/09/2018 06/30/2018	Ohio Department of Higher Education	Sudkamp, Thomas A.	\$3,609	The sponsor is providing effort support for work related to its Carl D. Perkins grant.
New Non-Profit Subagreement	Tackling Transfer Regional Transfer Grant: Articulation Agreements with Rhodes State Community College	01/15/2018 06/30/2018	Ohio Association of Community Colleges	Brun, Carl F. Hibner, Mark	\$1,580	Wright State project personnel will partner with personnel at Rhodes State Community College in an effort to increase the number of existing program articulation agreements between the two institutions from four (4) to at least ten (10).

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New State Subagreement	MHEC Travel Support for Jared Shank, September 2017	07/01/2017 06/30/2018	Ohio Department of Higher Education	Sudkamp, Thomas A.	\$785	The sponsor provided support for Mr. Shank to attend the Military Credit Mapping Summit and Fifth Annual Conference: Serving Veterans in the Classroom.
Student Services						
New Non-Profit Subagreement	Tackling Transfer Regional Transfer Grant: Veterans Support	01/15/2018 06/30/2018	Ohio Association of Community Colleges	Brun, Carl F.	\$3,000	Project personnel will provide training for academic advisors on issues that veterans and military students face when transferring credit from their military training and experiences.
Student Aid						
Amendment Federal Grant	College Work Study Program	07/01/2012 06/30/2018	U.S. Department of Education	Barnhart, Amy	\$12,781	These funds help support the college work-study program at WSU.
Continuation Federal Grant	College Work Study Program	04/01/2018 06/30/2019	U.S. Department of Education	Barnhart, Amy	\$940,830	These funds help support the college work-study program at WSU.
Continuation Federal Grant	PELL Grant Program 2017/2018	04/01/2017 06/30/2018	U.S. Department of Education	Barnhart, Amy	\$642,385	These funds support PELL grants for students.
Continuation Non-Profit Subagreement	Science, Mathematics, and Research for Transformation (SMART) Defense Scholarship Program 2018/2019	08/01/2018 05/31/2019	Logistics Management Institute	Barnhart, Amy	\$144,354	The Science, Mathematics and Research for Transformation (SMART) Scholarship for Service Program is an opportunity for students pursuing a degree in Science, Technology, Engineering, and Mathematics disciplines to receive a full scholarship and be gainfully employed by the Department of Defense (DoD) upon degree completion.

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New Federal Grant	PELL Grant Program 2018/2019	04/01/2018 06/30/2019	U.S. Department of Education	Barnhart, Amy	\$1,459,092	These funds support PELL grants for students.
New Federal Grant	Supplemental Educational Opportunity Grant Program (SEOG) 2018/2019	06/01/2018 06/30/2019	U.S. Department of Education	Barnhart, Amy	\$451,207	These funds support SEOG grants for students.

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VP for Research and Dean of the Graduate School

Basic Research

Amendment Federal Contract	Interactions with Semi-Autonomous Remotely Piloted Aircraft (RPA)	09/22/2011 10/14/2019	DoD, Air Force, Air Force Research Laboratory	Gross, David C.	\$1,727,625	The focus of this extension is to use the Vigilant Spirit Control Station to research, develop, integrate, and evaluate advanced controls and displays which enable a single operator to control multiple RPAs.
Amendment Federal Grant	Precision High Intensity Training through Epigenetics (PHITE)	09/01/2018 08/31/2019	DoD, Office of Naval Research	Broderick, Timothy J. Kadakia, Madhavi P. Raymer, Michael L.	\$1,499,917	Consistent with Defense Science Board 2030 recommendations for warfighter performance, the PHITE program will explore the link between physical training and epigenetics.
Amendment Federal Contract	Revolutionary Intelligence and Influence Technologies (RIIT)	12/20/2010 03/27/2020	DoD, Air Force, Air Force Research Laboratory	Minnery, Brandon S.	\$1,447,018	The WSRI team will perform a needs assessment, task analysis, and technology assessment to improve individual and team performance of Naval Special Warfare Command (NSWC) operators in cold water
Amendment Federal Contract	Maximizing the Collective Intelligence of a Network Using Novel Measures of Socio-Cognitive Diversity	05/12/2016 02/15/2019	DoD, Army Research Office	Minnery, Brandon S.	\$141,466	The WSU researchers will test whether measures of socio-cognitive diversity can be used to enhance "wisdom of the crowd" effects within groups of collaborating analysts (e.g., teams of military intelligence analysts).

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New State Subagreement	Ohio MRC Leadership Conference	04/01/2018 06/30/2018	Ohio Department of Health	Norell, Todd R.	\$121,371	WSU, in conjunction with ODH, will perform activities to develop a toolkit and conference for Ohio's state, regional, and local Medical Reserve Corps leaders, with a focus on volunteer management, and provide research and recommendations on state operational volunteer plans.
New Educ. Inst. Subagreement	Adaptive Goal-Driven Autonomous Agents	12/01/2017 11/30/2018	Lehigh University	Cox, Michael T.	\$87,500	The focus of this project is the automated learning and elicitation of knowledge needed for autonomous agents to operate robustly.
New Federal Grant	RI: Student Travel Program for the 2018 International Conference on Case-Based Reasoning	06/01/2018 05/31/2019	National Science Foundation	Cox, Michael T.	\$10,000	This funding will provide international and domestic travel support for U.S. based student participants to attend the 26th International Conference on Case-Based Reasoning.
Applied Research						
Amendment Educ. Inst. Subagreement	Creating Surgical Capabilities for Exploration Space Flight	10/01/2017 09/30/2018	Baylor College of Medicine	Broderick, Timothy J.	\$14,000	Determine efficacy of humanoid robotic operators as assistants in space flight surgeries. Performance evaluations will be made with humanoid robots using surgical tools, receiving commands, and performing surgical tasks.
Total Funded					\$38,544,975	