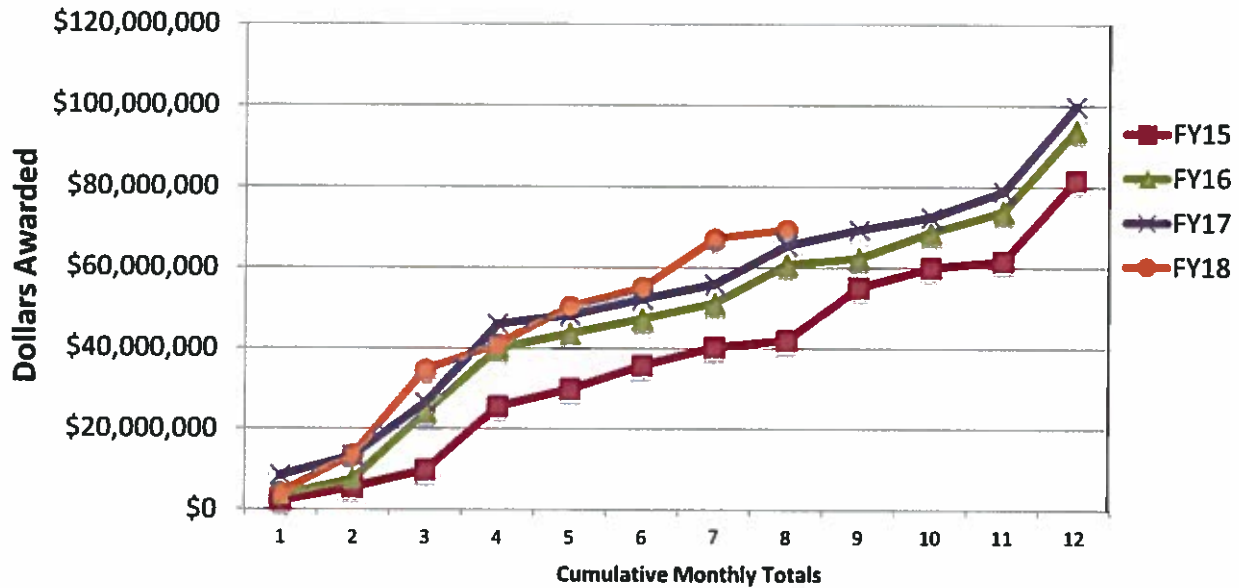


WRIGHT STATE UNIVERSITY
Cumulative Grant and Contract Awards
Comparison with Previous Three Fiscal Years through February



FY18 through 2/28/18: \$69,446,035
 FY17 through 2/28/17: \$65,420,197
 FY16 through 2/28/16: \$60,744,478
 FY15 through 2/28/15: \$41,942,920

**WRIGHT STATE UNIVERSITY
GRANT AND CONTRACT AWARDS**

**PREPARED FOR
BOARD OF TRUSTEES MEETING**

April 27, 2018*

| TYPE | NEW AWARDS | | ONGOING AWARDS** | | TOTAL AWARDS | |
|-----------------------|------------|--------------------|------------------|---------------------|--------------|---------------------|
| | Number | Dollars | Number | Dollars | Number | Dollars |
| Research | 17 | \$1,219,241 | 18 | \$2,748,782 | 35 | \$3,968,023 |
| Instruction | 0 | | 5 | \$80,000 | 5 | \$80,000 |
| Institutional Support | 0 | | 3 | \$618,359 | 3 | \$618,359 |
| Public Service | 1 | \$69,689 | 1 | \$71,000 | 2 | \$140,689 |
| Student Aid | 0 | | 2 | \$8,931,368 | 2 | \$8,931,368 |
| TOTAL | 18 | \$1,288,930 | 29 | \$12,449,510 | 47 | \$13,738,440 |

* Figures include total support for awards made since the February 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.

**April 27, 2018
Wright State University
Grants and Contracts Awarded
Since the February 16, 2018 Board of Trustees Meeting**

| Type | Title | Duration | Sponsor | Investigator(s) | Amount | Abstract |
|--|---|--------------------------|---|------------------------|---------------|---|
| Continuation Non-Profit Agreement | Miscellaneous Awards Under DCOP Fiscal Agency Agreement | 08/01/2017 07/31/2018 | Dayton Clinical Oncology Program | Nevels, Dieter | \$4,747 | 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. |
| 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. | \$291,375 | 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). |
| Amendment Educ. Inst. Subagreement | Improving Electrical and Mechanical Performances of Electrolyte Membranes for Flexible Solid-State Li- Ion Batteries | 01/16/2018 04/30/2018 | University of Dayton | Huang, Hong | \$6,200 | The primary objective of this research is to develop thin film, flexible, and mechanically durable Li-ion batteries which are abuse-tolerant, have large energy densities, and can operate in a wide range of temperatures. |
| Amendment Non-Profit Subagreement | Human Performance and Human Sciences: Ohio Federal Research Network; Cycle II: Motion Sickness Interactions with Spine Disorders (MOSSD) and Advanced Cognitive and Physical Sweat Biosensing | 09/19/2016 01/31/2019 | Wright State Applied Research Corporation | Broderick, Timothy J. | \$899,748 | This funding will be used to support administrative costs of center and technical costs of two projects. |

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|---|---|--------------------------|---|---|---------------|---|
| 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. | \$467,000 | 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. |
| New Industrial Contract | CTRA-M14-702 | 04/06/2016 12/31/2019 | AbbVie Inc. | Talbot, Ted | \$216,212 | CTRA-M14-702 |
| Amendment Industrial Contract | CTRA-Replicate | 09/27/2017 12/31/2018 | AbbVie Inc. | Talbot, Ted | \$14,985 | CTRA-Replicate |
| Amendment Industrial Subagreement | Aeromechanical Investigation of Turbine Engine High Speed Compressors | 06/01/2016 04/30/2019 | Universal Technology Corporation | Wolff, J. Mitch | \$6,160 | 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 Federal Coop. Agrmt. | Development and Validation of a Standard Color Palette and Updates to the FAA Color Standard | 01/01/2018 12/31/2018 | U.S. Department of Transportation, Federal Aviation Administration | Gallimore, Jennie J. | \$99,756 | CAMI AAM-500 is performing a collaborative research project with Wright State University to develop a color palette for ANG-C1. |
| Amendment Non-Profit Subagreement | C4ISR: Ohio Federal Research Network, Cycle II: Human- Centered Big Data | 09/19/2016 01/31/2019 | Wright State Applied Research Corporation | Rigling, Brian D. Raymer, Michael L. Minnery, Brandon S. | \$600,000 | This funding will be used to support the administrative costs of the Center of Excellence for Command, Control, Communications Computing Intelligence Surveillance and Reconnaissance (C4ISR) and the technical costs of one project (HCBBD). |

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|--|---|--------------------------|---|------------------------|---------------|---|
| Amendment Educ. Inst. Subagreement | Anti-TNF Monotherapy versus Combination Therapy with Low Dose Methotrexate in Pediatric Crohn's Disease (COMBINE) | 11/01/2017 10/31/2018 | University of North Carolina at Chapel Hill | Saeed, Shehzad | \$31,655 | 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 | PELL Grant Program 2017/2018 | 04/01/2017 06/30/2018 | U.S. Department of Education | Barnhart, Amy | \$8,917,368 | These funds support PELL grants for students. |
| Continuation Industrial Contract | SOPP Internship: PHP Upper Valley Medical Center FY2018 | 07/01/2017 12/31/2017 | Premier Health Partners | Schultz, Michelle S. | \$8,000 | 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. |
| Continuation Industrial Contract | SOPP Internship: Dayton Children's Hospital FY2018 | 07/01/2017 06/30/2018 | Dayton Children's Hospital | Schultz, Michelle S. | \$32,000 | The sponsor will provide training and fiscal support for external rotations in the SOPP Doctoral Internship program during the 2017 -2018 training year. |
| Continuation Other Gov't. Subagreement | SOPP Internship: Summit BHC FY2018 | 07/01/2017 06/30/2018 | Summit Behavioral Healthcare | Schultz, Michelle S. | \$16,000 | The sponsor will provide training and fiscal reporting for external rotations in the SOPP doctoral internship program for the 2017 -2018 training year. |
| Continuation Industrial Contract | SOPP Practicum: Central Clinic, Adult Services FY2018 | 07/01/2017 06/30/2018 | Central Clinic | Schultz, Michelle S. | \$16,000 | The sponsor will provide supervision, and direct and indirect client services training for two doctoral students. |
| Continuation Non-Profit Contract | SOPP Practicum: Hillcrest Academy FY2018 | 07/01/2017 06/30/2018 | Hillcrest Academy | Schultz, Michelle S. | \$14,000 | The sponsor will provide direct client services training for two SOPP doctoral students. |

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|------------------------------------|--|--------------------------|----------------------------------|------------------------|---------------|--|
| New Industrial Contract | Sample Analysis | 07/01/2017 06/30/2018 | Atomera Incorporated | Look, David C. | \$2,800 | Sample Analysis |
| Amendment Non-Profit Subagreement | Molecular Imaging of RAS for the Discovery of Novel Biomarkers in Chronic Kidney Disease | 07/01/2016 03/31/2018 | Henry M. Jackson Foundation | Elased, Khalid M. | \$40,000 | This project aims to test the hypothesis that treatment of diabetic mice with anti-diabetic medication or RAS blockers attenuates renal injury and excretion of RAS biomarkers. |
| New Industrial Subagreement | CTRA-LIBERTY1 | 09/07/2017 12/31/2019 | Myovant Sciences Inc. | Galloway, Michael | \$123,220 | CTRA-LIBERTY1 |
| Amendment Educ. Inst. Subagreement | MAVEN Extended Mission for FY17-18 | 07/01/2011 09/30/2018 | University of Colorado | Fox, Jane Lee | \$51,981 | The researchers 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. |
| Continuation State Subagreement | Small Business Development Center, FY2018 | 10/01/2017 09/30/2018 | Ohio Development Services Agency | Black, Donerik G. | \$71,000 | These funds will be used to support Region 4 of the SBDC Consortium from October 1, 2017 to September 30, 2018. |
| Amendment Industrial Subagreement | Reactionary Assistance Support for Container Technology | 09/01/2017 08/31/2018 | Engility Corporation | Wischgoll, Thomas | \$15,000 | The researchers will investigate different container technologies and their suitability for data analytics and other tasks. |
| Amendment Industrial Subagreement | Microstructure Development During Rapid Solidification: A Materials Genome Project | 09/15/2017 01/31/2018 | Applied Optimization, Inc. | Srinivasan, Raghavan | \$4,701 | The researchers will identify thermodynamic properties that will be of relevance for modeling microstructural development during the additive manufacturing, and correlate modeling results provided by sponsor to microstructural observations. |

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|---------------------------------------|---|--------------------------|---|------------------------|---------------|--|
| Supplement Industrial Agreement | Biopsy Study | 10/27/2017 10/26/2018 | Devicor Medical Products, Inc. | Dudley, Emily S. | \$4,407 | Wright State University will support the testing of biopsy devices. |
| Continuation Federal Agreement | Veterans Affairs Medical Center IPA Agreement - Kemp | 10/01/2017 09/30/2018 | Veterans Affairs Medical Center | Kemp, Michael | \$55,596 | Dr. Kemp will examine UV-dependent DNA repair and DNA damage signaling responses in cultured human keratinocytes, mouse skin, and human skin biopsies. |
| Continuation Federal Agreement | Veterans Affairs Medical Center IPA Agreement | 10/01/2017 09/30/2018 | Veterans Affairs Medical Center | Zhang, Wenfeng | \$35,096 | Ms. Zhang will be assisting in growing keratinocytes and measuring cytokines from cell and murine tissues. |
| New Non-Profit Subagreement | Intelligent Modeling of Vehicle Firmware | 01/01/2018 04/30/2018 | Transportation Research Center Inc. | Zhang, Junjie | \$13,020 | The goal of this project is to model firmware missions and identify anomaly implementation of firmware missions (e.g., falsified emission controllers). |
| New Non-Profit Contract | Analysis of Glen Helen Nature Preserve | 07/01/2017 11/30/2017 | Glen Helen | McGowin, Audrey E. | \$420 | Analysis of Glen Helen Nature Preserve |
| New Educ. Inst. Subagreement | Strengthening Middle School Science and Health Education by Linking Grade-Level Inquiry and Reading of Complex Tasks | 09/01/2017 08/31/2018 | University of Missouri | Romine, William L. | \$26,540 | The project will integrate science- and health-based text sets into middle school science and English classes, and evaluate their impact on students' ability to comprehend text as well as their motivation to read about science and pursue science careers. This project will also include professional development for teachers, and evaluation of how teachers' practices change as a result of implementing the text sets. |

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|---------------------------------|--|--------------------------|--|---|---------------|--|
| New State Grant | AHEC Support | 07/01/2017 06/30/2019 | Ohio Department of Higher Education | Roman, Brenda | \$244,004 | This project will support the medical school regional area health education centers' educational programs for the continued support of medical and other health professions education. |
| New Federal Grant | Planning IUCRC Wright State University: Center for Hardware and Embedded System Security and Trust (CHEST) | 02/01/2018 01/31/2019 | NSF, Industry/University Cooperative Research Grants | Emmert, John M. | \$15,000 | Hardware Security and Trust is critical. HW enables cyber-physical systems within the IoT. WSU will lead a multi-university team (UCONN, NU, GMU, UVa, and UTD) to address critical HST needs. |
| New Educ. Inst. Subagreement | Immune Evasion in Aquatic Rhabdoviral Pathogens | 07/01/2017 06/30/2018 | University of Toledo | Leaman, Douglas | \$148,600 | The scientific aim is to understand the innate immune response and virulence of novirhaboviruses in rainbow trout. |
| New State Agreement | Choose Ohio 1st Scholarship Program | 07/01/2017 06/30/2021 | Ohio Department of Higher Education | Poling, Deborah | \$240,000 | The ODHE and WSU College of Nursing & Health partner together with this scholarship award program that will provide financial aid to graduate students pursuing a career in the area of primary care. Recipients are required to agree to pursue a career in primary care within the state of Ohio for a period of no less than 3 years along with several other stipulations. |
| Continuation State Subagreement | Expanding Quality and Access to Information and Services for Sexual Assault Victims | 10/01/2017 09/30/2018 | Ohio Office of the Attorney General | Biesemeyer, Destinee N. Rando, Robert A. | \$134,355 | This project will continue outreach services to students who have experienced gender-based violence. |

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|-------------------------------------|--|--------------------------|---|------------------------|---------------|---|
| Continuation 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. | \$120,375 | 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. |
| New Non-Profit Subagreement | Research and Development Analytics and Landscape Mapping to Improve and Accelerate Technology Transfer | 10/01/2017 10/15/2018 | 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. |
| New Industrial Contract | Optimization of an Overmolded Electronics Package Assembly | 12/13/2017 04/30/2018 | Caterpillar Trimble Control Technologies LLC | Young, Henry Daniel | \$21,800 | The researcher will focus on the identification of failure modes in an overmolded electronics package assembly, and attempt to identify process and/or design modification to reduce cracking effects. |
| New Other Gov't. Agreement | Consulting Epidemiologist | 01/01/2018 12/31/2018 | Public Health Dayton and Montgomery County | Paton, Sara J. | \$69,689 | The contractor will serve as an Epidemiologist and Office of the Health Commissioner Liaison for Public Health - Dayton and Montgomery County. |
| New Industrial Subagreement | CTRA - SPIRIT 2 | 11/09/2017 12/31/2019 | Myovant Sciences Inc. | Galloway, Michael | \$100,623 | CTRA - SPIRIT 2 |
| New Industrial Subagreement | CTRA - POET | 12/07/2017 12/31/2019 | Bayer HealthCare Pharmaceuticals Inc. | D'Amato, Josette | \$257,199 | CTRA - POET |

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|--|--|--------------------------|---|------------------------|---------------|---|
| New Educ. Inst. Subagreement | 2/2 Alcohol Associated Comorbidities and Microbiome Evaluation in HIV (ACME HIV) | 09/22/2017 08/31/2018 | University of Louisville | Crawford, Timothy | \$16,894 | AIM 1: To assess longitudinal qualitative and quantitative changes in the gut microbiome (dysbiosis) associated with very heavy alcohol consumption. AIM 2: To determine the impact of HIV infection and alcohol abuse induced gut dysbiosis on intestinal permeability, microbial translocation (MT), and resultant peripheral endotoxemia, immune activation and inflammation. AIM 3: To investigate the impact of dysbiosis and peripheral inflammation on development of neuro-inflammation and cognitive function. |
| Continuation Other Gov't. Contract | SOPP Internship: Miami County Juvenile Court FY2018 | 01/01/2018 06/30/2018 | Miami County Juvenile Court | Schultz, Michelle S. | \$8,000 | The sponsor will provide training and financial support for external rotations in the SOPP Doctoral Internship program during a portion of the 2017-2018 training year for one doctoral student. |
| New Non-Profit Subagreement | Evaluating Trusted Systems Implementation | 01/01/2018 04/30/2018 | Transportation Research Center Inc. | Bryant, Adam R. | \$16,343 | The researchers will perform analysis that is expected to result in improvements in decompilation and analysis, and to determine conditions under which binary software can be successfully re-targeted and adhere to stricter security properties. |
| New Industrial Subagreement | An Open Cloud-based Platform for Extensible and Scalable Immune Repertoire Analysis in Immunization and Infection | 02/06/2018 01/31/2019 | ImmuDX LLC | Chen, Keke | \$74,070 | The researchers will develop an open cloud-based platform for extensible and scalable antibody repertoire analysis in immunization and infection. |

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|------------------------------------|--|--------------------------|----------------------------------|------------------------|---------------------|--|
| New Educ. Inst. Subagreement | Creating Surgical Capabilities for Exploration Space Flight | 10/01/2017 09/30/2018 | Baylor College of Medicine | Broderick, Timothy J. | \$4,000 | The researchers will determine the efficacy of humanoid robotic operators as assistants in space flight surgeries. |
| New Federal Grant | A Holistic Automatic Deep Understanding and Protection of Technical Documents | 04/01/2018 03/31/2021 | DoD, Office of Naval Research | Bourbakis, Nikolaos G. | \$165,000 | The researchers will conduct research for the generation of a holistic approach for deep understanding of technical documents. |
| Total Funded | | | | | \$13,738,440 | |