

RESEARCH NEWS

Spring 2020 Vol. 50

RESEARCH AND SPONSORED PROGRAMS ICON SOON TO BEGIN A NEW ADVENTURE

It is the end of an era here in Research and Sponsored Programs! After more than 30 years at Wright State University, Jackie Frederick, Director of Pre-Award, is set to retire on April 30, 2020. As many of you are aware, Jackie has been our “rock” for all things related to Pre-Award administration. Her knowledge, patience and guidance have been invaluable to many faculty and staff members. Her leadership and exceptional customer service skills are something we can all strive towards.

During her tenure at the University, Jackie has held several positions. She started in 1989 as a secretary with the School of Graduate Studies, she later moved to Research and Sponsored Programs, where she served as a Grants Administrator in Post-Award. In 2000, she made the transition to Pre-Award as an Assistant Director. Two promotions later, in 2008, she assumed her new duties as Director of Pre-Award. It can be safely said that Jackie has worked with faculty members in every College and School on campus during her tenure. Over the years, she also completed her Bachelor’s degree in English at Wright State. What a career and great example of the opportunities Wright State University has provided!

Knowing Jackie, we expect her to remain busy in her retirement. With her love of family, books and travel she will always have an adventure awaiting. We cannot wait to hear about them as we stay in touch over the coming months and years.

SPIN FUNDING OPPORTUNITY DATABASE

GAINING ACCESS IN A FEW EASY STEPS...

SPIN, the world’s largest funding database, can assist you in the funding opportunity search process. Explore how you can use this tool for your project needs. For assistance navigating SPIN, contact your SPIN administrator, Sheila Bensman, at sheila.bensman@wright.edu or call ext. 2497.

GAINING ACCESS

1. Visit <https://rspgateway.wright.edu>.
2. Enter your Wright State University W ID and password at the WSU Central Authentication Service page
3. Click on “\$ Find Funding” at the top of the resulting page

BASIC SEARCH

Search for any component of opportunity:

- Opportunity title
- Sponsor Name
- Field/Subject matter

Results can be sorted, grouped, or filtered.

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Thoughts from the Interim Vice Provost for Research....

Welcome to another edition of *Research News*, a compilation of news and current events from the staff members of the Office of the Vice Provost for Research and Innovation. You may have noticed the name change: you will see it pop up on the University's banner when searching for any of the areas that report to the Vice Provost for Research and Innovation. The "research" piece is nothing new, but we like to think that the word "innovative" describes the outcomes of research, scholarship and teaching that bring new ideas to the campus and beyond. We like to be part of this innovative adventure.

The staff members in Research and Sponsored Programs and Research Compliance support the very important research endeavors of the University's faculty and staff. We are the one-stop shop for everything from identifying funding opportunities and providing assistance in all facets of the proposal process to administration of externally sponsored programs to overseeing the multitude of research compliance requirements for federal and non-federal funding. You will also see innovative things occurring in the Office of Technology Transfer, where Dr. Whitney Hough has been reaching out to faculty to disclose and move their intellectual property to the marketplace and to enhance collaborations with local companies that provide internship opportunities and support for senior design projects.

The work of the Office is also supported by the Faculty Senate's Scholarship and Sponsored Research Committee (SSRC). Made up of faculty representatives from all colleges, the SSRC is chaired this year by Dr. Sherry Farra in the College of Nursing and Health. Dr. Farra began the Committee's work in the fall semester by setting a goal of finding a more effective vehicle to increase research communication across campus. To that end, Dr. Farra has been working with a subcommittee of the SSRC and Ms. Myke Cooney of CaTS to establish a SharePoint site. Accessible through Outlook, the SSRC SharePoint site will serve as the hub for research discussions, limited submission research opportunities, outreach for those seeking collaborations, and other useful resource links. A calendar will provide listings of scholarship and research events, and videos will help guide users through the site and offer overviews of areas such as the Institutional Review Board and technology transfer. Researchers may also upload their "scholarship of interest" to the site. The possibilities are endless.

We would also like to share the announcement of two opportunities for students to showcase their research and scholarship this semester:

Lake Campus Research Symposium

Thursday, April 16, 2020, in Dicke Hall from 11 a.m. to 1:30 p.m.

For more information, see: <https://lake.wright.edu/research/research-symposium>

Symposium of Student Research, Scholarship & Creative Activities (Dayton Campus)

Friday, April 17, 2020, in the Wright State University Student Union

Papers, abstracts and posters may be submitted through CORE Scholar by using the following link:

<https://www.wright.edu/event/symposium-of-student-research-scholarship-and-creative-activities>

We hope to see you at one or both of these upcoming events. Have a good semester!

MEET OUR NEWEST STAFF MEMBERS



Juwanna Higgins joined the Office of Research and Sponsored Programs in September 2019 as Director of Post Award. She comes to RSP from Cleveland Metropolitan School District where she served as Director of Grants Reporting & Funding Programs. She also previously worked for 23+ years at Case Western Reserve University with her last position being the Research Administrative Manager for Civil, Electrical & Computer Science and Mechanical & Aerospace Departments in the School of Engineering. Juwana's career at Case Western Reserve has all been in finance – pre-award services, post award services, grants management, cash management, effort reporting, and auditing/compliance. She earned her Bachelor's Degree in Business Management from Ursuline College in Pepper Pike, Ohio. She will lead all aspects of WSU's sponsored programs financial operation. She will provide a structure of accountability for financial outcomes and the appropriate internal controls to produce a sound financial environment for all grants and contracts received by the University.



Ann Holliday joined the Office of Research and Sponsored Programs in August 2019 as a Post Award Grants Accountant. She comes from The University of Texas at Austin where she served as an Accountant I in Business & Financial Services where she performed accounts payable, reporting, and financial analysis for Financial and Administrative Services departments of the University. She brings 13 years' experience working in the higher education accounting field. Ann completed her Bachelor of Science in Business majoring in Accounting from the University of Phoenix in 2010 and earned her Master of Science in Accountancy from the University of Phoenix in 2013. Ann will serve as grants accountant for the Boonshoft School of Medicine (BSOM).



Karie Maurer-Enneking joined the Office of Research and Sponsored Programs in early August of 2019 as the Assistant Director of Pre Award. Her most recent grant work was done serving as Executive Director of a local domestic violence shelter where she budgeted, wrote and managed grants totaling over two million dollars of federal, state, local and private funding. She brings to WSU a varied skill set, having been Operations Director of a small business chain, a Program Manager for a municipal library system and an eBusiness and Marketing Analyst for a local Fortune 500 company. She graduated from Miami University in 1998 and brings to the job not only a diverse skill set but an endless curiosity and an understanding from the side of the grant writer. She will be the contact for the Boonshoft School of Medicine (BSOM) and the Wright State University Lake Campus. Karie invites you to stop by her office and say hello anytime you are in University Hall, her office number is 382.

Highlights From Campus

WSU STATISTICAL CONSULTING CENTER



The Statistical Consulting Center (SCC) has served clients both inside and outside the university community for over 35 years. The SCC has a successful record of research collaborations with faculty across the university, supports grant proposals and funded research, and provides statistical support for graduate student research. Additionally, we provide statistical analysis to external clients in both the public and private sectors.

Everyone is eligible for an initial one-hour consultation, per research project, free of charge. Our services are free to College of Science and Mathematics faculty, staff, and graduate students doing research at Wright State without grant support or other funding. Our rates are modest for other fully-affiliated Wright State faculty, staff, and graduate students for research done at Wright State.

The SCC provides complimentary support on grant proposals for everyone if written into the grant to provide statistical support.

As part of the Applied Statistics master's degree curriculum, statistics graduate students spend a semester working in the SCC. The services of these students, under the supervision of our professional statisticians, are free to everyone.

Contact Michael Bottomley to make an appointment or for further information

(michael.bottomley@wright.edu)
(937) 775-2286).

Why Use a Consultant?

- Many **research proposals** can be made more effective with a stronger statistical component. The SCC can strengthen your research work by assisting with such aspects as formulation of hypotheses, experimental design, sample size estimation, data collection methodology, methods of analysis, and interpretation of results.
- Those who deal with data in their research, graduate studies, or business activities can **seek advice and assistance** from a consultant at the SCC. It is best to meet with us at the planning stage, before collecting data. Even if you carry out all your own statistical design and analysis, it is worthwhile to plan and review them with a SCC consultant to assess their appropriateness and viability to achieve your intended goals.
- We assist with **data entry and data management**.
- We regularly offer a "Statistical Overview" **short course** as well as **workshops** on SAS, SPSS and R software packages.
- We offer statistical software assistance either individually or via class presentations, as our availability and expertise permits, with no charge to faculty for these services.

Mission Statement

The mission of the Statistical Consulting Center (SCC) is five-fold:

1. Provide high quality, effective statistical support for Wright State University faculty, staff, and graduate students.
2. Effectively and efficiently train statistics graduate students in the art and science of real-world statistical consulting.
3. Generate statistics research problems that can lead to grant funding opportunities, research publications, and/or presentations at professional meetings by the statistics faculty.
4. Offer high quality and practically useful statistics education opportunities to University personnel and the surrounding community, including community service activities.
5. Offer high quality, effective statistical support to individuals and organizations not affiliated with Wright State University.

UPCOMING CHANGES FOR NSF PROPOSALS: NEW PROPOSAL & AWARD POLICIES & PROCEDURES GUIDE

The National Science Foundation (NSF) has delayed the effective date for the use of their new PAPPG until June 1, 2020 due to some major changes in the proposal submission process. The complete new guide is available at https://www.nsf.gov/pubs/policydocs/pappg20_1/nsf20_1.pdf. Please refer to the new guide when preparing proposals to be submitted on or due by June 1, 2020. **It is important to review the changes and prepare the documents accordingly to avoid receiving an error at time of submission that will prevent NSF from accepting the proposal.**

The following is a list of some of the significant changes closely related to proposal submission. Please refer to the above-referenced guide for all instructions and changes. A more expansive list of significant changes that also includes other clarifications and administrative type changes can be found at the beginning of the PAPPG noted above.

Chapter II.C.1.b, List of Suggested Reviewers or Reviewers Not to Include, has been updated to remove the requirement to indicate why the proposer prefers someone not review their proposal.

Chapter II.C.2.d(i), Project Description, has been revised to remove the requirement for the Project Description to contain, as a separate section within the narrative, a section labeled "Intellectual Merit." In addition, another example has been added to the list of societally relevant outcomes in the broader impacts paragraph. The list is not meant to be either comprehensive or prescriptive; proposers may include appropriate outcomes not covered by the examples.

Chapter II.C.2.f, Biographical Sketches, has been modified to require use of an NSF-approved format in submission of the biographical sketch. NSF will only accept PDFs that are generated through use of an NSF-approved format. NSF has provided information on the new required format options at <https://www.nsf.gov/bfa/dias/policy/biosketch.jsp>. The SciENcv option is available now. There will be an NSF fillable PDF option by the June 1 implementation date of the new PAPPG. The information must be provided in the order and format specified in the PAPPG. Inclusion of additional information beyond that specified in the guide may result in the proposal being returned without review. NSF has included additional language to the Appointments section, to increase clarity regarding the information that must be provided. Appointments should include any titled academic, professional, or institutional position, whether or not remuneration is received. It is important to note that synergistic activities should be specific and must not include multiple examples to further describe the activity.

Chapter II.C.2.h, Current and Pending Support, has been modified to require use of an NSF approved format in submission of current and pending support information. NSF will only accept PDFs that are generated through use of an NSF-approved format. As there has been confusion on what should be included in the current and pending support document in the past, NSF has provided a FAQ at https://www.nsf.gov/bfa/dias/policy/papp/pappg20_1/faqs_cps20_1.pdf in addition to the instructions in the PAPPG.

Chapter II.E.1 and 2, Rapid Response Research (RAPID) Proposal and EARly-concept Grants for Exploratory Research (EAGER) Proposal, have been supplemented with language which clarifies how RAPID and EAGER proposals may not be used. A new requirement that email documentation from a cognizant NSF Program Officer approving submission of a RAPID or EAGER be uploaded to the proposal also has been added.

As always, it is important to **submit proposals at least two days prior to the deadline**. This will be especially important if a researcher has failed to use any of the new requirements or formats, and NSF will not allow submission of the application until corrected.

Sponsor Alerts, cont'd

SALARY CAPS HAVE INCREASED!

The AHRQ & NIH salary cap has changed from \$192,300 to \$197,300 effective January 5, 2020.

For AHRQ see NOT-HS-20-006 @ <https://grants.nih.gov/grants/guide/notice-files/NOT-HS-20-006.html>

For NIH see NOT-OD-20-065 @ <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-20-065.html>

NOTICE – Update and Changes to NIH Continuous Submission Policy

NIH released Notice Number NOT-OD-20-060 on January 24, 2020 with the purpose of alerting the scientific research community of plans to discontinue the practice of granting one-year continuous submission status to reviewers with recent substantial review service, which was earned by serving 6 times in an 18 month period.

Continuous submission eligibility for appointed members of NIH committees and other terms/requirements of the overall policy have not changed, with the exception that the deadlines for assignment to a given council round are defined in Table I (see link below).

Continuous submission eligibility covers appointed members of:

- Chartered NIH Study Sections
- NIH Boards of Scientific Counselors
- NIH Advisory Board or Councils
- NIH Program Advisory Committees

Eligibility begins on the date the appointment becomes active and continues for six weeks after the official date of retirement from the appointed committee service. Thus, if retirement from appointed service occurs June 30, continuous submission is permitted until August 16 of that year.

Continuous submission eligibility can be viewed in the reviewer's eRA Commons Personal Profile, in the Reviewer Information section.

The list of currently eligible reviewers can be found on the NIH Continuous Submission page.

Please see link below for more details.

<https://grants.nih.gov/grants/guide/notice-files/NOT-OD-20-060.html>

FORMS-F Application Packages:

NIH has announced changes to the grant application form and application guide instructions for due dates on or after May 25, 2020.

The following application forms include substantive changes (i.e., new/deleted/modified fields). All other forms include only an OMB expiration date change.

- PHS 398 Career Development Award Supplemental Form
- PHS 398 Cover Page Supplement
- PHS Assignment Request form
- PHS Fellowship Supplemental Form
- PHS Human Subjects and Clinical Trials Information
- SBIR/STTR Information

NIH will post FORMS-F application packages as follows:

- New funding opportunity announcements (FOAs) will be posted with FORMS-F application packages beginning February 25, 2020.
- New FOAs posted before February 25, 2020 with initial due dates on or after May 25, 2020 will be posted without application forms until updated forms are available. Application packages will be added to these FOAs by March 25, 2020.
- All previously issued, active FOAs with due dates on or after May 25, 2020 (except administrative supplement, change of institution, and successor-in-interest Parent FOAs) will be updated to add FORMS-F application packages between February 25, 2020 and March 25, 2020.

See NOT-OD-20-026 for more details.

<https://grants.nih.gov/grants/guide/notice-files/NOT-OD-20-026.html>

Facilities and Administrative Costs (F&A) Myths VS. Facts

Direct research costs are what people generally think of when it comes to federal support of research projects. These costs normally include laboratory supplies, specific research equipment, salary support for researchers and lab personnel, and travel for conducting research or disseminating research results. This is the core of university research, and it is also where the bulk of the federal investment is spent.

To perform research on behalf of federal agencies, research institutions incur a variety of other significant costs for research projects that they otherwise would not incur, known as Facilities and administrative (F&A) costs. (Indirect costs) F&A costs are incurred in conducting or supporting research and service but they cannot be readily identified as benefiting particular research or service projects.

Myth #1	The funds provided for direct costs cover all expenses related to project activities. Payment for F&A is “extra” funding.	Fact #1	<p>Direct costs are assigned directly to a specific project or activity – e.g. salaries, supplies, travel etc.</p> <p>F&A costs are reimbursed for actual expenses incurred – use of space, facilities, equipment and administrative services.</p> <p>There is a federally prescribed methodology used to negotiate and assign a fair portion of allowable costs to research F&A. WSU’s F&A rate is negotiated with the Department of Health and Human Services.</p> <p>Direct and F&A, together, are the real costs of doing research.</p>
Myth #2	F&A reimbursements only support the institution’s infrastructure, providing little benefit to scientific research.	Fact #2	F&A supports the space and infrastructure required to conduct cutting edge research. Researchers depend on and benefit greatly from institutional investments funded by F&A cost reimbursement.

Continued.....

Pre Award News, cont'd

F&A Myths VS. Facts, cont'd from pg. 7.....

<p>Myth #3</p>	<p>If a non-government sponsor caps its F&A reimbursement at 10%, the federal government is subsidizing the research.</p>	<p>Fact #3</p>	<p>Federal cost principles require that F&A costs are allocated fully and consistently to all benefitting activities, regardless of whether a sponsor fully reimburses the institution. This ensures that all research is costed consistently. If a sponsor under reimburses F&A, the institution is subsidizing the work.</p> <p>Non-federal sponsors often have special interests and operate under a different paradigm than federal agencies. F&A cost rate limitations often can be mitigated by greater latitude in direct charging allowable items.</p>
<p>Myth #4</p>	<p>An F&A cost rate of 50% means that half of the funding goes to pay F&A costs with the other half available for direct costs.</p>	<p>Fact #4</p>	<p>A 50% Rate does not equal 50 cents of the dollar to F&A.</p> <p>F&A cost rates are applied to the Modified Total Direct Costs (MTDC) of a project, which results in F&A charges of no more than one-third of a project's total costs.</p> <p>Typical MTDC exclusions are tuition, equipment over \$5,000, subcontracts in excess of \$25,000, participant costs, etc.</p> <p>Example: \$100,000 is required to support a proposed project. Of which, \$80,000 is MTDC.</p> <p>The total budget is calculated as follows:</p> <p>\$80,000 (MTDC) X 50% = \$40,000 \$100,000 + \$40,000 = \$140,000 Total Project Costs F&A = less than 30% of Total Project Costs.</p>

FOREIGN INFLUENCE & ACADEMIC INSTITUTIONS

Foreign Influence on U.S. academic institutions is the subject of much scrutiny at the federal level in recent months. Foreign influence is, broadly, focused on foreign visitors, collaborators, or sponsors using their access on campuses to capture intellectual property, confidential information, or other valuable information and return it to their home nation. The primary source of concern comes from China, but threats come from other countries as well.

Congress has become so concerned about the threats that they are passing legislation and pressuring funding agencies to take additional steps to discover potential problems. Of particular concern is the presence of Confucius Institutes and the Thousand Scholars programs on U.S. campuses. Both entities are funded by the Chinese government and are believed to act counter to U.S. national interests.

National news headlines have shown an increase in enforcement actions by the FBI, in particular the recent arrest of Harvard University's Department of Chemistry chairperson for allegedly failing to disclose tens of thousands of dollars' worth of payments from Chinese sources.¹

U.S. researchers are required to disclose foreign funding sources and affiliations with any foreign organizations. Both the National Institutes of Health (NIH) and the National Science Foundation (NSF) have issued new guidelines or publications expanding on the importance of full disclosures. The NIH, in particular, has been very active in the last 18 months in confronting researchers and their U.S.-based universities. When submitting proposals or progress reports, be aware that NIH looks for any "foreign component" that is relevant to your grant activity – whether grant funds are spent or not. Activities that are considered a "foreign component" include:

- The involvement of human subjects or vertebrate animals at a foreign site.
- Extensive foreign travel by recipient project staff for the purpose of data collection, surveying, sampling, and similar activities;
- collaborations with investigators at a foreign site anticipated to result in co-authorship;
- use of facilities or instrumentation at a foreign site; or
- receipt of financial support or resources from a foreign entity.²

Wright State has several resources available for our faculty, staff, and students to help avoid a problematic situation. If you are performing research be sure to update your Significant Financial Interest (SFI) disclosure and include all foreign support and affiliations. Anyone seeking to host a foreign visitor should contact UCIE to begin the process, but Research Compliance has specific questions and software to assist faculty in vetting the visitor. Additional information can be found on the Office of Research Compliance website - <https://www.wright.edu/research/research-compliance/foreign-influence-in-university-research>

¹<https://www.nytimes.com/2020/01/28/us/charles-lieber-harvard.html>

²https://grants.nih.gov/grants/policy/nihgps/html5/section_16/16.2_eligibility.htm

Research Compliance News

2019 - A YEAR OF CHANGE FOR THE WSU INSTITUTIONAL REVIEW BOARD (IRB)

Last year the human subject protection program at WSU experienced a decade's worth of change. First, the revised Common Rule (Department of Health and Human Services regulations) was implemented as of January 21, 2019. This change was the first major revision to the regulations governing human subject research since 1991. (See [Policies, Procedures and Forms](#) for more information).

Second, long-time IRB Administrator Robyn Wilks retired in January. And finally, the Human Subjects Module in InfoED was updated in May causing substantive changes for both investigators and research administration staff.

However, despite these challenges and operating with just 1.375 FTEs in the IRB Office, the IRB and IRB Office was able to accomplish the following:

- 90 Full Board Submissions (Initial, Continuing, Amendments, Reportable Events, HUDs)
- 413 Expedited Submissions (Initial, Continuing, Amendments)
- 155 Exemption Determinations (New and Formerly Expedited Studies at Continuing Review)
- 28 Administrative Continuations (Formerly Expedited Continuations)
- 6 New/Revised Policies
- 6 New Guidance Documents
- 5 New IRB Member Orientations

This doesn't include the miscellaneous submissions, non-compliance reviews, reliance agreement negotiations or training and outreach activities that also took place during 2019.

Needless to say, it was a very busy year! Please thank your fellow IRB members for all their hard work!

In 2020, we plan to continue to update/create IRB SOPs and provide more written guidance for investigators. We also hope to complete the first phase of the ongoing project to have investigator's CVs and CITI training information available

via the electronic Personnel Table in InfoED. This will not only ensure compliance with federal requirements but will also ease the burden on investigators whose "credentials" will follow them in the system, rather than needing to be uploaded for each study.

Efforts will continue to fill the open position in the IRB Office with an appropriately qualified candidate – which we hope will happen before the end of the semester.

Once the Personnel Table Project is completed, we will focus available effort on finalizing and formally launching the External Reliance Process, including new related SOPs and guidance documents.

Many thanks to the investigators and research staff who worked with us to improve the process during this time of great change. We really appreciate your cooperation, hard work and sense of humor!

Ask the WSU IRB

Q: Why does the IRB require that a current CV be on file for study investigators?

A: Federal regulations and current scientific norms require that the IRB ensure that researchers conducting the study have the appropriate experience and training to conduct and supervise the proposed activities. The IRB may also need to assess credentials if the study involves "higher risk, vulnerable subjects, or novel technologies."

Q: I am a faculty member and a physician and want to conduct a chart review at a local hospital. Do I need to complete the NEW "Biomedical" or the "Social/Behavioral" CITI training requirements?

A: Chart reviews are considered biomedical research and so you will be required to complete the four required modules listed in the instructions found here: <https://www.wright.edu/sites/www.wright.edu/files/page/attachments/WSU%20HSR%20CITI%20Training%20Requirements%204.0%2011212019.pdf>

Continued.....

Research Compliance News, cont'd

WSU IRB, cont'd from Pg. 10...

Q: My study team attached a completed Project-Specific Disclosure (PSD) form with our new study submission, but now we have received a notice that three of the study team members have not completed the SFI Form. What is the difference?

A: The annual Significant Financial Interest (SFI) form is required for certain investigators and can be accessed via an individual's RSP Gateway account. The SFI form asks the individual to disclose all financial interests related to their institutional responsibilities. The PSD Form, on the other hand, is a study-specific form and contains language that requires that the investigator must update their SFI Form should their interest change during the course of a study instead of completing a new PSD at each continuing review. Therefore, if the investigator doesn't have an SFI Form on file, the investigator cannot be compliant with this requirement. For more information about this requirement, read the guidance found on the IRB's Policies, Procedures and Forms webpage.

WRIGHT STATE UNIVERSITY INSTITUTIONAL REVIEW BOARD MEETING SCHEDULE SPRING/SUMMER 2020

Meeting Date	Deadline Date
April 20	March 30
May 18	April 27
June 15	May 25
July 20	June 29

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AWARDS

*The grants and contracts on these pages were awarded from July 2018 through December 2019
Award amounts may reflect one or more years/increments.*

Keferl, Joseph E.

*Dayton Regional Science, Technology,
Engineering, and Mathematics School
Services Agreement*

Dayton Regional Science, Technology,
Engineering, and Mathematics (STEM)
School
\$7,689,530

Sudkamp, Thomas A.

Articulation and Transfer FY2018

Ohio Department of Higher Education
\$12,700

Sudkamp, Thomas A.

Articulation and Transfer FY2019

Ohio Department of Higher Education
\$1,127,079

Edwards, Sue

Ohio Articulation and Transfer

Ohio Department of Higher Education
\$6,000

Edwards, Sue

Articulation and Transfer 2019/2020

Ohio Department of Higher Education
\$1,136,606

Barnhart, Amy

College Work Study Program

U.S. Department of Education
\$940,830

Mott, Robert

CTRA - CDIFF

Sanofi Pasteur, Inc.
\$352,578

Terry, John B.

*MISTIE III: A Phase III, Randomized,
Open Label, 500-Subject Clinical Trial of
Minimally Invasive Surgery Plus rt-PA in
the Treatment of Intracerebral
Hemorrhage*

Johns Hopkins University
\$19,211

Shaw, Arnab K.

LADAR Technology and Research

Leidos, Inc.
\$33,500

Paul, Kimberly A.

*NCI Award Under DCOP Fiscal Agency
Agreement*

Dayton Clinical Oncology Program
\$783,697

Nevels, Dieter

*Miscellaneous Awards Under DCOP
Fiscal Agency Agreement*

Dayton Clinical Oncology Program
\$4,149

Paul, Kimberly A.

*Miscellaneous Awards Under DCOP
Fiscal Agency Agreement*

Dayton Clinical Oncology Program
\$55,086

Kozak, Juliusz Ashot

TRPM7 and Cellular pH

DHHS, National Institute of Allergy and
Infectious Diseases
\$370,000

Elbasiouny, Sherif M.

*Mechanisms Underlying Excitability
Regulation of Motoneuron Types in ALS*

DHHS, National Institute of Neurological
Disorders and Stroke
\$388,278

Rigling, Brian D.

Garber, Fred D.

Saville, Michael
Ash, Joshua Noel
Wischgoll, Thomas
Rizki, Mateen M.

*Sensor and Information Research Center
for Understanding Systems (SIRCUS)*

DoD, Air Force, Air Force Research
Laboratory
\$275,500

Dockery, Jane L.

*Evaluation of Northwest State Community
College's Trade Adjustment Assistance
Community College and Career Training
(TAACCCT) Grant*

Northwest State Community College
\$8,802

Long, Weiwen

ERK3 Kinase Signaling in Lung Cancer

DHHS, National Cancer Institute
\$666,943

Rooney, Thomas

*Establishing a Scientific Basis for Garlic
Mustard Control and Eradication on
Private Lands*

Dairymen's Foundation, Wisconsin
\$18,000

*The staff of the Office of Research and Sponsored Programs congratulates those receiving external funds,
and we encourage those with unfunded proposals to consult with us about resubmission.*

Rigling, Brian D. <i>Collaborative Research: I/UCRC Center for Surveillance Research, Phase II</i> NSF, Industry/University Cooperative Research Grants \$87,200	Lehrer, Douglas S. <i>African Ancestry Genomic Psychiatry Cohort</i> Research Foundation for The State University of New York \$163,800	Rigling, Brian D. Garber, Fred D. Saville, Michael Shaw, Arnab K. Wischgoll, Thomas Rizki, Mateen M. <i>SIRCUS TO2: Comprehensive Learning Objectives for Warfighter Needs (CLOWN)</i> DoD, Air Force, Air Force Research Laboratory \$1,825,000
Schneider, Tamera <i>Intergovernmental Personnel Act (IPA) assignment of Dr. Tamera Schneider from Wright State University to the National Science Foundation</i> NSF, Miscellaneous \$152,490	Juvina, Ion Harel, Assaf <i>Lapses of Attention Predicted in Semi-Structured Ecological Settings (LAPSES)</i> DoD, Office of Naval Research \$57,164	Sheth, Amit Thirunarayan, Krishnaprasad <i>SCH: INT: kHealth: A Semantic Approach to Proactive, Personalized Asthma Management Using Multimodal Sensing</i> DHHS, National Institute of Child Health and Human Development \$295,924
Rigling, Brian D. <i>Collaborative Center for Surveillance Research, Phase II</i> More Than One Source of Support \$200,000	Travers, Jeffrey B. <i>CTRA - MAVIS</i> Polynoma LLC \$16,775	Rigling, Brian D. Palmer, Luther R. Garber, Fred D. Saville, Michael Shaw, Arnab K. Wischgoll, Thomas <i>SIRCUS TO2: Comprehensive Learning Objectives for Warfighter Needs (CLOWN)</i> DoD, Air Force, Air Force Research Laboratory \$170,000
Travers, Jeffrey B. Sahu, Ravi P. Cool, David R. Li, Gengxin <i>Platelet Activating Factor and Epidermal Cytotoxicity</i> DHHS, National Heart, Lung, and Blood Institute \$374,675	Zhuang, Yan <i>Growth and Characterization of Multiferroic Materials</i> Azimuth Corporation \$35,978	Minnery, Brandon S. Sheth, Amit Shalin, Valerie L. <i>Maximizing the Collective Intelligence of a Network Using Novel Measures of Socio-Cognitive Diversity</i> DoD, Army Research Office \$32,309
Rigling, Brian D. <i>Object Physics for Exploitation and Recognition Advancements (OPERA)</i> Leidos, Inc. \$25,000	Bihl, Ji Chen <i>Role of ACE2 Overexpressing Endothelial Progenitor Cells in Cerebral Hemorrhage</i> American Heart Association - National \$77,000	Wolff, J. Mitch <i>Aeromechanical Investigation of Turbine Engine High Speed Compressors-Phase I/Phase II</i> Universal Technology Corporation \$29,380
Andersh, Dennis J. <i>Human Performance Center of Excellence</i> Ohio Development Services Agency \$869,001	Xu, Yong-Jie <i>Signaling Mechanism of the DNA Replication Checkpoint</i> DHHS, National Institute of General Medical Sciences \$259,000	
Wischgoll, Thomas Saunders, Vance M. <i>Center for Virtual and Cyber-Physical Systems</i> Ohio Department of Higher Education \$590,348	Hangartner, Thomas N. <i>Renal Osteodystrophy: A Fresh Approach</i> University of Kentucky \$5,512	

Doom, Travis E. <i>Updating Skeletal Maturity Methods for U.S. Children</i> University of Missouri \$25,995	Sanders, Donikea R <i>GEAR UP Scholarship</i> Ohio Department of Higher Education \$14,600	Saeed, Shehzad <i>Anti-TNF Monotherapy versus Combination Therapy with Low Dose Methotrexate in Pediatric Crohn's Disease (COMBINE)</i> University of North Carolina at Chapel Hill \$116,738
Daniulaityte, Raminta Carlson, Robert G. Nahas, William A. <i>A Natural History Study of Buprenorphine Diversion, Self-Treatment, and Use of Drug Abuse Treatment Services</i> DHHS, National Institute on Drug Abuse \$459,960	Harel, Assaf <i>The Role of Dynamic Representational Networks in Expertise in Visual Scene Recognition</i> DoD, Office of Naval Research \$164,460	Bowman, Marjorie A. <i>Clinical Trial - TANGO</i> inVentiv Health Clinical \$11,510
Huang, Hong <i>Electron Optics Analyses towards Fundamental Understanding of Functional Thin Film Materials and Devices</i> Universal Energy Systems, Inc. \$28,000	Banerjee, Tanvi <i>Managing Dementia through a Multisensory Smart Phone Application to Support Aging in Place</i> DHHS, National Library of Medicine \$171,298	Barnhart, Amy <i>PELL Grant Program 2017/2018</i> U.S. Department of Education \$642,385
Broderick, Timothy J. Kadakia, Madhavi P. Raymer, Michael L. <i>Precision High Intensity Training through Epigenetics (PHITE)</i> DoD, Office of Naval Research \$2,985,786	Medvedev, Ivan <i>Terahertz Spectroscopic Chemical Sensor for Analysis of Fatigued Human Breath</i> Universal Technology Corporation \$8,500	Everhart, Kim <i>PELL Grant Program 2017/2018</i> U.S. Department of Education \$2,969
Ford, JoAnn <i>Sisterline: Substance Abuse Treatment and HIV Prevention for African-American Women at High Risk for HIV/AIDS in Montgomery County, OH</i> DHHS, Substance Abuse and Mental Health Services Administration \$524,971	Look, David C. <i>Electrical and Optical Characterization</i> Wyle Laboratories \$460,381	Cho, Kwang-jin <i>K-Ras Plasma Membrane Interactions: A Tractable Therapeutic Target</i> DHHS, National Cancer Institute \$249,000
Bae, Harok <i>Stochastic Metamodeling for Design Validation</i> Southwestern Ohio Council for Higher Education \$19,855	Kinzeler, Nicole <i>Peer Movement Project (PMP)</i> DHHS, Substance Abuse and Mental Health Services Administration \$494,196	Mott, Robert <i>Clinical Research Affiliation and Operations Agreement CY17 - CY18</i> Premier Health Partners \$1,457,520
Martin, Bryan M. <i>GEAR UP Scholarship</i> Ohio Department of Higher Education \$13,450	Gross, David C. <i>Interactions with Semi-Autonomous Remotely Piloted Aircraft (RPA)</i> DoD, Air Force, Air Force Research Laboratory \$496,575	Mott, Robert <i>Clinical Research Coordinator Staffing Agreement at Miami Valley Hospital CY18</i> Premier Health Partners \$333,682
	Travers, Jeffrey B. <i>Laboratory Animal Resources Care</i> Veterans Affairs Medical Center \$19,200	Mott, Robert <i>Clinical Nurse to Support Miami Valley Hospital Department of Surgery CY17</i> Premier Health Partners \$32,452

Huber, Mary Josephine <i>The Learning and Working During the Transition to Adulthood Rehabilitation Research and Training Center</i> University of Massachusetts Medical School \$9,113	Cigrang, Jeffrey A. <i>“Up-Arming” At-Risk Military Couples: A Prospective Study of Committed Romantic Relationships in Transition to Their First Permanent Duty Station</i> DoD, Air Force, Air Force Research Laboratory \$294,000	Elbasiouny, Sherif M. <i>Integrated Sense, Assess and Augment (ISAA)</i> Wright State Applied Research Corporation \$271,578
Rigling, Brian D. Garber, Fred D. Saville, Michael Shaw, Arnab K. Wischgoll, Thomas Rizki, Mateen M. <i>SIRCUS TO2: Comprehensive Learning Objectives for Warfighter Needs (CLOWN)</i> DoD, Air Force, Air Force Research Laboratory \$50,000	Roman, Brenda <i>Wright Rural Health Initiative Implementation Proposal</i> HealthPath Foundation of Ohio \$80,000	Roberts, Rory A. Lautzenhiser, Margaret R <i>Multi-Fidelity Analysis Methods for Multidisciplinary Design Optimization</i> Dayton Area Graduate Studies Institute \$52,260
Sucosky, Philippe <i>Identification and Assessment of Hemodynamic Predictors of Bicuspid Aortic Valve Aortopathy</i> American Heart Association - Great Rivers Affiliate \$76,998	Bae, Harok <i>Probabilistic Design Criteria for Decision Making with Uncertainty</i> University of Dayton \$109,642	Jacquemin, Stephen James <i>Nutrient and Sediment Retention Potential by Controlled Pond and Riparian Tile Buffer Systems</i> Ohio Environmental Protection Agency \$11,899
Polenakovik, Hari M. <i>CTRA - TOUR</i> Theravance, Inc. \$2,500	Farajian, Amir Wirth, Lucas J <i>First Principles Calculations of Solution Hardening Kinetics</i> Dayton Area Graduate Studies Institute \$52,260	Rigling, Brian D. <i>Performance Understanding for Layered Sensing Exploitation: Valuable Insights Through Analysis of Layered Sensing</i> InfoSciTex \$100,000
Di Fulvio, Mauricio <i>Chloride-Regulated Insulin Secretion</i> American Diabetes Association - National \$115,000	Polenakovik, Hari M. <i>CTRA - DEFINE</i> Melinta Therapeutics, Inc. \$16,603	Jarnot, Thomas F. <i>Aerospace Medicine Training for the Era of Pioneering a Journey to Expanding Human Space Flights Beyond ISS and LEO</i> National Aeronautics and Space Administration \$95,000
Bihl, Ji Chen Chen, Yanfang Jacobs, Bradley S. <i>Therapeutic Role of miR-126 Over-Expressing EPC-MVs for Ischemic Stroke in Diabetes</i> American Diabetes Association - National \$115,000	Binder, Stephen Bruce Bowman, Marjorie A. <i>Accelerating Primary Care Transformation Wright (APCT-Wright)</i> DHHS, Health Resources and Services Administration \$598,823	Huang, George <i>A Thermo-fluids Analysis of Aircraft Thermal Energy Management and Precision Airdrop</i> Dayton Area Graduate Studies Institute \$92,000
	Cheatham, Michelle Andreen Shimizu, Cogan M <i>KAST – Knowledge Analytics using Semantic Technologies</i> Dayton Area Graduate Studies Institute \$17,420	Fox, Jane Lee <i>MAVEN Extended Mission Phase E</i> University of Colorado \$358,746

Jackson, Paul <i>Wright Brothers Institute Operations</i> Wright Brothers Institute, Inc. \$84,289	Wu, Zhiqiang <i>Travel reimbursement for C2PNT FRN Cycle II Intelligent Channel Sensing</i> Ohio University \$765	Di Fulvio, Mauricio <i>Role of Slc12a5 in insulin secretion and glucose homeostasis</i> DHHS, National Institute of Diabetes and Digestive and Kidney Diseases \$262,500
Leffak, I. Michael <i>Mechanisms of Microsatellite Instability in Human Disease</i> DHHS, National Institute of General Medical Sciences \$600,000	Gentile, Julie P. Cowan, Allison Harper, Bethany L. Mast, Ryan C. Merrill, Brian M. Gainer, Danielle M <i>Ohio's Telepsychiatry Project</i> Ohio Department of Developmental Disabilities \$225,000	Merrill, Brian M. <i>Community General Psychiatry</i> Ohio Department of Mental Health and Addiction Services \$15,000
Jacquemin, Stephen James <i>Nutrient and Sediment Retention Potential of Treatment Trains in Grand Lake St. Marys Watershed</i> St. Marys Community Foundation \$51,399	Bihl, Ji Chen Chen, Yanfang Travers, Jeffrey B. <i>Microvesicles as a Novel Transmitter for UVB-Induced Bioactive Products</i> DHHS, National Institute of Arthritis and Musculoskeletal and Skin Diseases \$162,800	Excoffon, Katherine Voss, Daniel T. Sharma, Priyanka <i>Prevention of Adenovirus Pathogenesis Through Downregulation of the Apical Adenovirus Receptor</i> DHHS, National Institute of Allergy and Infectious Diseases \$375,000
Li, Sheng <i>Refinement of OSU's Scuffing Models for Lubricated Rough Surface Contacts of Rollers and Gears</i> Ohio State University \$110,000	Mukhopadhyay, Sharmila M. <i>EAGER: Novel Bio-inspired 3D Hybrid Materials for Surface-Active Devices</i> NSF, Miscellaneous \$12,000	Dudley, Emily S. <i>Biopsy Study</i> Devicor Medical Products, Inc. \$52,066
Sudkamp, Thomas A. <i>Wright State Choose Ohio First Program</i> Ohio Department of Higher Education \$565,500	Pollock, Sara <i>Regularized adaptive methods for classes of nonlinear partial differential equations</i> NSF, Miscellaneous \$42,950	Sudkamp, Thomas A. <i>MHEC Travel Support for Jared Shank, September 2017</i> Ohio Department of Higher Education \$785
Littell, Timothy Jason Gallagher, John C. <i>Choose Ohio First Continuing Scholar Program FY2020</i> Ohio Department of Higher Education \$120,000	Brown, Joylynn M. Hill, Sara Jane <i>Wright State Men's Basketball Improvement Fund FY2019</i> Horizon League \$175,834	Emmert, John M. <i>Design Framework and CAD Tools for Hardware Security and Trust</i> EDaptive Computing, Inc. \$120,000
Sudkamp, Thomas A. <i>Choose Ohio First Continuing Scholar Program FY2019</i> Ohio Department of Higher Education \$220,000	Shalin, Valerie L. <i>ASSET 3 Support</i> University of Maryland \$49,978	Barnhart, Amy <i>PELL Grant Program 2018/2019</i> U.S. Department of Education \$16,126,646
		Dudley, Emily S. <i>Sinclair Training</i> Sinclair Community College \$5,268

Romine, William L. <i>Strengthening Middle School Science and Health Education by Linking Grade-Level Inquiry and Reading of Complex Tasks</i> University of Missouri \$26,540	Zhang, Junjie Ganapathy, Subhashini Saunders, Vance M. <i>Training for Resilient Cyber Physical Systems Design, Development, and Testing</i> Knowledge Based Systems, Inc. \$113,303	Roberts, Rory A. Ellicott, Andrew <i>Development of a Vehicle Level Integration Tool for Aircraft Energy Management</i> Dayton Area Graduate Studies Institute \$43,073
McCarthy, Mark J. Newell, Silvia Elena <i>Nitrate/Nitrite Analytical Services</i> Finger Lakes Institute \$3,550	Mott, Robert <i>CTRA - Inform CLL</i> Pharmacyclics LLC \$18,523	Bihl, Ji Chen Chen, Yanfang <i>Exosomes from miR-primed endothelial progenitor cells for treating ischemic stroke</i> DHHS, National Institute of Neurological Disorders and Stroke \$328,125
Leaman, Douglas <i>Reducing Impacts of Disease on Salmonid Aquaculture Production</i> University of Toledo \$287,000	Rigling, Brian D. <i>Science, Technology and Research for Exploiting Sensor Systems (STRESS)</i> DoD, Air Force, Air Force Research Laboratory \$2,059,246	Wang, Jinju Bihl, Ji Chen <i>The regulatory effect of exercise on circulating EPC-EXs and its implication in ischemic stroke</i> American Heart Association - National \$110,456
Gross, David C. <i>Interactions with Semi-Autonomous Remotely Piloted Aircraft (RPA)</i> DoD, Air Force, Air Force Research Laboratory \$797,500	Elbasiouny, Sherif M. <i>Identification of Electrophysiological Markers for Early Diagnosis of Amyotrophic Lateral Sclerosis</i> National Academy of Sciences \$75,196	Cox, Michael T. <i>Adaptive Goal-Driven Autonomous Agents</i> Lehigh University \$100,000
Ekeh, Akpofure P. <i>CTRA - TEGG</i> INC Research LLC \$49,388	Knisely, Christina B <i>Veterans Affairs Medical Center IPA Agreement - Knisely</i> Veterans Affairs Medical Center \$69,330	Ciarallo, Frank W. <i>Models of Component Demands from Fleets Supported by Reliability Information</i> MacAulay-Brown, Inc. \$101,250
Chen, Keke <i>An Open Cloud-based Platform for Extensible and Scalable Immune Repertoire Analysis in Immunization and Infection</i> ImmuDX LLC \$74,551	Williams, Amy R <i>Veterans Affairs Medical Center IPA Agreement - Williams</i> Veterans Affairs Medical Center \$48,195	Warfield, Janeece <i>SOPP Internship: CompDrug FY2019</i> CompDrug \$16,000
Broderick, Timothy J. <i>Creating Surgical Capabilities for Exploration Space Flight</i> Baylor College of Medicine \$30,759	Kozlowski, Gregory Fletcher, Aaron T. <i>Advanced Optical Materials for Next Generation High Powered Lasers</i> Dayton Area Graduate Studies Institute \$52,260	Warfield, Janeece <i>SOPP Internship: Miami County Juvenile Court FY2019</i> Miami County Juvenile Court \$16,000
Bourbakis, Nikolaos G. <i>A Holistic Automatic Deep Understanding and Protection of Technical Documents</i> DoD, Office of Naval Research \$250,000		

Warfield, Janeece <i>SOPP Internship: Summit BHC FY2019</i> Summit Behavioral Healthcare \$16,000	Schultz, Michelle S. <i>SOPP Practicum: Miami University FY2019</i> Miami University \$7,400	Kinzeler, Nicole <i>Evaluation Services for Montgomery County Juvenile Court</i> Montgomery County Juvenile Court \$23,310
Schultz, Michelle S. <i>SOPP Practicum: CHC of Greater Dayton FY2019</i> Community Health Centers of Greater Dayton \$18,000	Schultz, Michelle S. <i>SOPP Practicum: Self Matters FY2019</i> Self Matters LLC \$2,400	Young, Henry Daniel Srinivasan, Raghavan <i>Support for ASM International Teacher's Materials Camp in the Dayton Metro Region</i> DoD, Air Force Office of Scientific Research \$12,600
Schultz, Michelle S. <i>SOPP Practicum: Center for Adolescent Services FY2019</i> Center for Adolescent Services \$9,000	Schultz, Michelle S. <i>SOPP Practicum: South Community MHC FY2019</i> South Community Mental Health Center \$24,000	Jovina, Ion <i>Goal-driven Agile Teams and Environments (GATE)</i> Wright State Applied Research Corporation \$70,895
Schultz, Michelle S. <i>SOPP Practicum: Central Clinic FY2019</i> Central Clinic \$16,000	Schultz, Michelle S. <i>SOPP Practicum: Summit BHC FY2019</i> Summit Behavioral Healthcare \$9,000	Schneider, Tamara <i>Human-Centered Science Laboratory (HCSL) Support of AFRL Activities</i> Wright State Applied Research Corporation \$5,000
Schultz, Michelle S. <i>SOPP Practicum: Children's Hospital Medical Center - Center for ADHD FY2019</i> Children's Hospital Medical Center (Cincinnati) \$30,000	Schultz, Michelle S. <i>SOPP Practicum: UD Counseling Center FY2019</i> University of Dayton \$12,400	Thomas, Scott Keith Phillipp, Michael J <i>Analysis of Requirement or Specification of a Rotational Stage for the Centrifuge Table at AFRL</i> Ohio Space Grant Consortium \$6,000
Schultz, Michelle S. <i>SOPP Practicum: CompDrug FY2019</i> CompDrug \$8,320	Boaz, Matt <i>Ohio/Western Pennsylvania/West Virginia HERC Consortium 2018-2019</i> Tides Center \$84,754	Wolff, J. Mitch <i>Ohio Space Grant Consortium Campus Allocation Funds 18-19</i> Ohio Space Grant Consortium \$2,200
Schultz, Michelle S. <i>SOPP Practicum: Court Clinic Site FY2019</i> Central Clinic \$9,000	Warfield, Janeece <i>PECE-PACT: Parents Early Childhood Education/Positive Action Choices Training</i> Montgomery County ADAMH Services Board \$69,288	Meyer, Cheryl <i>Research Evaluation Enhancement Projects (REEP) - MIH-19-38</i> Ohio Commission on Minority Health \$75,000
Schultz, Michelle S. <i>SOPP Practicum: Kline and Associates FY2019</i> Kline and Associates \$2,500	Chung, Soon M. Crossman, Nathaniel <i>Clustering and Visualization of Geotagged Text Data for Crisis Management</i> Dayton Area Graduate Studies Institute \$52,260	

Cigrang, Jeffrey A. <i>Lesbian, Gay, and Bisexual Couples in the Military: A Post-DADT Examination of Relationship Health, Perceived Community Acceptance, and Mission Readiness</i> Army Medical Research Acquisition Activity \$1,053,094	Dockery, Jane L. Murray, Carol S. <i>Greene County Juvenile Court RECLAIM: Evaluation and Quality Assurance Project</i> Greene County Juvenile Court \$39,916	Thackeray, Jonathan D <i>Clinical Consultant for SIM Self-Evaluation</i> Ohio State University \$27,516
Steele-Middleton, Amanda <i>FY18 Exploration Project</i> Ohio Department of Higher Education \$1,920	Hitzler, Pascal <i>Toward Undifferentiated Cognitive Agents: Determining Gaps in Comprehension</i> DoD, Air Force Office of Scientific Research \$298,535	Nahhas, Ramzi <i>Ohio Opioid Analytics Project, RW Nahhas</i> Ohio State University \$44,873
Dockery, Jane L. Murray, Carol S. <i>OCTF Regional Surveys and Dashboard Development</i> Ohio Department of Job and Family Services \$7,767	Arumugam, Kuppuswamy <i>Dual Targeting Redox-active Gold(I) Complexes</i> DHHS, National Institute of General Medical Sciences \$462,195	Hall, Ashley Elizabeth <i>Writing Experience and Outcomes of Dual Enrollment Writing Students: A State-Wide Study</i> Council of Writing Program Administrators \$3,800
Dockery, Jane L. Murray, Carol S. <i>Southwest Ohio Regional Prevention Coordinator Proposal</i> Ohio Department of Job and Family Services \$1,163,992	Newell, Silvia Elena <i>Nitrification in Three Eutrophic Lakes: The search for new nitrifiers that thrive under extreme competition</i> Eppley Foundation for Research, Inc. \$14,999	Noss, Bob J Hill, Sara Jane <i>CoSIDA's Phil Langan Graduate Internship Grant</i> College Sports Information Directors of America \$15,000
McCarthy, Mark J. <i>Maumee River sediments as a nitrogen source or sink to Lake Erie: the competing roles of ammonium recycling and denitrification</i> Ohio State University \$39,998	Barnhart, Amy <i>Science, Mathematics, and Research for Transformation (SMART) Defense Scholarship Program 2018/2019</i> Logistics Management Institute \$144,354	Raymer, Michael L. <i>Research and Development Analytics and Landscape Mapping to Improve and Accelerate Technology Transfer (WSARC 17 0052)</i> Wright State Applied Research Corporation \$37,500
Sudkamp, Thomas A. <i>Supportive Effort for the Ohio Department of Higher Education's Carl D. Perkins Grant</i> Ohio Department of Higher Education \$3,609	Tsang, Pamela S. <i>Support for the 20th International Symposium on Aviation Psychology</i> NSF, Miscellaneous \$27,142	Wissman, Amy Rouhana, Laura <i>Culture Clash: An Alternative Model for Microbiology Instruction</i> American Society of Clinical Pathology \$2,500
Sheth, Amit <i>Modeling Social Behavior for Healthcare Utilization and Outcomes in Depression</i> Cornell University \$178,192	Sucosky, Philippe <i>Shear forces regulate endothelial and fibroblast cross talk via inflammation to produce fibrosis</i> William Marshall Rice University \$144,503	

Farajian, Amir Pupysheva, Olga <i>A Combined Experiment-Multiscale Simulation Study of 2D Nanomaterials Liquid-phase Exfoliation</i> DoD, Air Force Office of Scientific Research \$91,055	Elbasiouny, Sherif M. <i>The impact of neuromodulatory state on the excitability changes of motoneurons and the motor pool in ALS</i> DHHS, National Institute of Neurological Disorders and Stroke \$40,108	Brown, Elliott <i>EAGER Collaborative: >100 GHz Optical Clocking using Self-Modulation of Co-Tunneling Light Emitters</i> NSF, Miscellaneous \$90,000
Wolff, J. Mitch <i>Ohio Space Grant Consortium Undergraduate Scholarship - 2018-2019</i> Ohio Space Grant Consortium \$8,000	Zhang, Xinhui <i>Jewelry and watch retail auction data analytics and marketing design</i> Peden Consulting \$120,000	Fowler, Barbara A. <i>Workforce and Leadership Development of U.S. Minority Nurses in Public Health Departments</i> American Nurses Foundation \$5,000
Gentile, Julie P. <i>Ohio's Coordinating Center of Excellence in Mental Health/Intellectual Disability</i> Ohio Department of Mental Health and Addiction Services \$85,500	Bennett, Kevin B. <i>Cross Validation of the FAA Standard Color Palette and Development of Guidelines for Testing Displays: Phase II</i> U.S. Department of Transportation, Federal Aviation Administration \$33,896	Roberts, Rory A. <i>Design and Fabrication of an External Combustor for a JetCat Turbojet Engine</i> Universal Technology Corporation \$12,500
Gentile, Julie P. <i>Mental Illness - Intellectual Disability Residency Placements</i> Montgomery County ADAMH Services Board \$30,000	Slattery, William <i>Ohio Mining and Mineral Education Program</i> Ohio Mining & Mineral Education Program \$14,250	Mast, Ryan C. <i>Child Psychiatric Placements</i> Montgomery County ADAMH Services Board \$75,000
Gentile, Julie P. <i>Residency Traineeship Program for Psychiatric Residents in Dual Diagnosis - MI/DD</i> Ohio Department of Developmental Disabilities \$80,000	Cipollini, Donald F. <i>The extent of attack, determinants of susceptibility, and tolerance of cultivated olive, Olea europaea to emerald ash borer</i> U.S. Department of Agriculture \$67,058	Ford, JoAnn <i>Day-TREE</i> DHHS, Substance Abuse and Mental Health Services Administration \$1,060,955
Susuki, Keiichiro <i>Disruption of excitable axonal domains by glucose metabolite methylglyoxal</i> DHHS, National Institute of Neurological Disorders and Stroke \$390,200	Sheth, Amit <i>BD Spokes: MEDIUM: MIDWEST: Collaborative: Community-Driven Data Engineering for Opioid and Substance Abuse in the Rural Midwest</i> NSF, Miscellaneous \$120,000	Reo, Nicholas V. <i>Mechanistic Interpretations of Hypobaric and Hyperoxia using Metabolomics and Proteomics</i> Henry M. Jackson Foundation \$70,551
	Roberts, Rory A. <i>Compact Thermal Management System for Laser Systems</i> Spectral Energies, LLC \$50,000	Smith, Sherrill Jeanne <i>Military Medic Training and Nursing Transition Course</i> Ohio Department of Higher Education \$2,800
		Elbasiouny, Sherif M. <i>Identification of Electrophysiological Markers for Early Diagnosis of Amyotrophic Lateral Sclerosis</i> National Academy of Sciences \$2,347

Parikh, Priti Parikh, Pratik <i>Allocation of Trauma Resources in the State of Ohio: A Data Driven Approach for Current Assessment and Benchmarking</i> Ohio Department of Public Safety \$84,182 Ekeh, Akpofure P. Walusimbi, Mbaga Woods, Randy J. McCarthy, Mary C. Semon, Gregory R <i>CTRA - REAKT</i> Atox Bio, Ltd. \$97,320 Mott, Robert <i>CTRA - PASSAGE</i> Novartis Pharmaceuticals Corporation \$53,356 Gainer, Danielle M <i>Rural General Psychiatry</i> Ohio Department of Mental Health and Addiction Services \$10,000 Mast, Ryan C. <i>Child and Adolescent Psychiatry</i> Ohio Department of Mental Health and Addiction Services \$35,000 Welton, Randon S. <i>Adult General Psychiatry</i> Ohio Department of Mental Health and Addiction Services \$15,000	Biesemeyer, Destinee N. Rando, Robert A. <i>Ensuring wraparound survivor support through the integration of awareness and response systems</i> Ohio Office of the Attorney General \$134,355 Mathis, Tonya <i>Ohio/Western Pennsylvania/West Virginia HERC Consortium 2018-2019</i> Tides Center \$4,416 Sheth, Amit <i>Modeling Social Behavior for Healthcare Utilization and Outcomes in Depression</i> Cornell University \$29,958 Wischgoll, Thomas <i>Dynamic Collaborative Visualization Ecosystem (DynaCoVE)</i> Universal Technology Corporation \$30,000 Lieh, Jungshen <i>EPOC: Efficient Power Controller for Small Unmanned Air Vehicles</i> Intelligent Automation, Inc. \$45,000 Pei, Yong <i>Collaborative Communication Interruption Management System (C-CIMS)</i> Ball Aerospace \$69,999 Sherwood, Matthew Scott <i>Cerebral Hemodynamic Studies of Hypoxia and Fatigue</i> DoD, National Naval Medical Center \$500,797	Ebert, James Ray <i>Telomere Length Dynamics in Relation to Changes in Adiposity and Metabolic Risk</i> University of Texas Health Science Center at Houston \$26,229 Kaminski, Jennifer A. <i>Intelligent Diagnostic Assessment Platform for School Statistics Education</i> University of Notre Dame \$105,937 Traynor, Thomas L. <i>Short Term Certificate Grant Program</i> Ohio Department of Higher Education \$70,263 Pei, Yong <i>Autonomous Remote Piloted Cirrus SR22 Aerial Surveillance Platform and Personnel Air Vehicle "Air Uber" System</i> Persistent Surveillance \$10,000 Eustace, Rosemary <i>Pilot Testing of the PEERS PLUS Intervention for At-risk Beginning Baccalaureate Nursing Students</i> Ohio Council of Deans and Directors \$2,000 Dustin, Jack L. <i>Analysis of ED/GE and Alternative Program Options</i> Montgomery County Community Development Office \$5,000 Hammerschmidt, Chad R. <i>Knauss Marine Policy Fellowship Application</i> Ohio State University \$66,500 VandenBos, Toni Dewey, Dawne <i>Conservation Treatment of Wright Brothers Collection Artifacts</i> State Library of Ohio \$4,999
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Lorson, Kevin <i>HOPE Curriculum Workshop</i> Educational Service Center of Lorain County \$404	Klingbeil, Nathan W. Goldstein, David L. <i>Ohio LSAMP Alliance</i> Ohio State University \$80,463	Klingbeil, Nathan W. Goldstein, David L. Bourne, Anthony <i>The Ohio LSAMP Alliance</i> Ohio State University \$34,250
Yang, Zifeng <i>Blood Flow Velocimetry Using Digital Subtraction Angiography</i> Radiation Monitoring Devices, Inc. \$127,491	Brun, Carl F. <i>Support for OCTANE Activities</i> Ohio Department of Higher Education \$1,250	Swanson, Drew A. <i>Greene County Records Center and Archives Student Internship</i> Greene County Records Center and Archives \$5,000
Rua, Megan A. <i>Improving soil health to increase plant production and quality on dredged material</i> Ohio Environmental Protection Agency \$49,990	Goyal, Amit <i>CTRA - ECLIPSE</i> Cardiovascular Systems, Inc. \$56,352	Dustin, Jack L. <i>Support for the #VoteTogether Initiative</i> Young Invincibles \$1,000
Rizki, Mateen M. Rigling, Brian D. Garber, Fred D. <i>Environmental Compensation Algorithms for Real-time Air Quality Sensors</i> Universal Energy Systems, Inc. \$92,000	Hershberger, Paul J. <i>An Interactive Game for Cultural Proficiency Training Featuring Virtual Reality Immersion</i> Ohio State University \$469,813	Edwards, Sue <i>Support for Position of Senior Associate Director, SCTAI, FY2019</i> Ohio Department of Higher Education \$104,136
Thomas, Scott Keith <i>SAE Aero Design</i> Ohio Space Grant Consortium \$5,000	Reo, Nicholas V. <i>Metabolomics Analyses of Fecal Extracts in a 'Humanized' Microbiome Mouse Model of Toxicant Exposure</i> Henry M. Jackson Foundation \$115,128	Edwards, Sue <i>Support for Position of Associate Director, SCTAI, FY2019</i> Ohio Department of Higher Education \$91,518
Martin, Bryan M. <i>ACHIEVE: A Chance to Have and Improve the Experience and Value of Education</i> U.S. Department of Education \$194,816	Mustafa, Shoumi <i>Support for the Scaling Guided Pathways Grant Project</i> Ohio Department of Higher Education \$8,942	Williams, Clintoria <i>Selective Regulation of Distal Nephron Sodium Handling by Calcineurin Isoform</i> American Heart Association - National \$159,206
Sanders, Donikea R <i>ACHIEVE: A Chance to Have and Improve the Experience and Value of Education</i> U.S. Department of Education \$194,816	Mustafa, Shoumi <i>Support for the Scaling Guided Pathways Grant Project</i> Ohio Department of Higher Education \$25,000	Ren, Saiyu <i>Advanced Analog to Digital Converter (ADC) for GPS Receivers, Phase II SBIR</i> RBS Technologies, LLC \$150,000
	Banerjee, Tanvi <i>SCH: INT: Collaborative Research: Development and Analysis of Integrative Models for Chronic Pain</i> Northwestern University \$82,500	Kinzeler, Nicole <i>The Warriors Supporting Wellness (WSW) Project</i> Montgomery County ADAMH Services Board \$12,500

Dockery, Jane L. Murray, Carol S. <i>CHA/CHNA Report Template and Guidance</i> Preble County General Health District \$119,805	Zhong, Quan <i>Research Support for Visiting Research Scholar</i> Nanfang Hospital, Southern Medical University \$51,990	Meyer, Cheryl <i>Research Evaluation Enhancement Projects (REEP) - IM HUB 19-11</i> Ohio Commission on Minority Health \$50,000
Barnhart, Amy <i>Supplemental Educational Opportunity Grant Program (SEOG) 2019/2020</i> U.S. Department of Education \$424,368	Shaw, Arnab K. <i>Advanced Ladar Technology and Research (ALTAR): Algorithm and Simulation Support for Laser Radar</i> Leidos, Inc. \$44,809	Terry, John B. <i>CTRA - CSPC</i> inVentiv Health Clinical \$135,815
Everhart, Kim <i>Supplemental Educational Opportunity Grant Program (SEOG) 2019/2020</i> U.S. Department of Education \$1,718	Rigling, Brian D. Palmer, Luther R. Garber, Fred D. Saville, Michael Shaw, Arnab K. Wischgoll, Thomas <i>SIRCUS TO2: Comprehensive Learning Objectives for Warfighter Needs (CLOWN)</i> DoD, Air Force, Air Force Research Laboratory \$255,000	Polenakovik, Hari M. <i>CTRA - FLU IGIV</i> Emergent BioSolutions Canada Inc. \$55,247
Barnhart, Amy <i>PELL Grant Program 2019/2020</i> U.S. Department of Education \$1,222,942	Foster, Brandy <i>Optimization of Human Capital Program Human Attribute Taxonomy Development</i> Bowling Green State University \$223,479	Ganapathy, Subhashini <i>Human Machine Teaming for Collaborative Decision Making</i> Wright State Applied Research Corporation \$16,700
Everhart, Kim <i>Pell Grant Program 2019-2020</i> U.S. Department of Education \$7,848,121	Ciarallo, Frank W. <i>Test and Evaluation of Reliability of Human-Machine Systems via Simulation</i> MacAulay-Brown, Inc. \$74,999	Harel, Assaf <i>EEG-Based Neurocognitive Metrics of Situated Cognitive Human-Machine Interactions</i> Wright State Applied Research Corporation \$16,700
Baudendistel, Craig M. McCarther, Josiah W <i>OSGC Student Innovation Hands-On Project</i> Ohio Space Grant Consortium \$5,000	Park, Penny S <i>The Celebrative Spirit: 1937-1943</i> FotoFocus \$3,500	Doran, Derek Edmund <i>Intelligent Aggregation of Geopolitical Event Forecasts from Limited Sized Crowds</i> Wright State Applied Research Corporation \$16,700
Edwards, Sue <i>Travel Support for Perkins SCTAI/CT2 Compliance, FY19</i> Ohio Department of Higher Education \$2,000	Hershberger, Paul J. Bricker, Dean Crawford, Timothy Wilson, Josephine F. Martensen, Lora A <i>Western Ohio Wright SBIRT (WOWS)</i> Ohio Department of Mental Health and Addiction Services \$166,000	Rich, Mark M. Voss, Andrew A. <i>Block of TRPV4 channels as a novel approach to therapy of myotonia congenita</i> Muscular Dystrophy Association \$300,000

Brown, Thomas L. <i>The maternal-fetal adiponectin differential and fetal fat deposition</i> University of California, San Diego \$9,000	Cox, Michael T. <i>S&AS: INT: Collaborative: Goal-driven Marine Autonomy with Application to Fisheries Science and Management</i> NSF, Miscellaneous \$299,997	Kinzeler, Nicole <i>GPRA Training, Data Collection, and Reporting for the Ohio Medication Assisted Treatment - Prescription Drug and Opioid Addiction (Ohio MAT PDOA) Project</i> Ohio Department of Mental Health and Addiction Services \$127,735
Kemp, Michael <i>DNA damage response kinase signaling in non-replicating human cells and tissues</i> DHHS, National Institute of General Medical Sciences \$292,000	Arumugam, Kuppuswamy <i>Controlling Sequential Arrangement of Monomers in Triblock Copolymers with Ruthenium Catalysts Containing Tetrathiafulvalene-N-H</i> Petroleum Research Fund - American Chemical Society \$70,000	Kinzeler, Nicole <i>Project Save Evaluation</i> Montgomery County ADAMH Services Board \$35,000
Lawhorne, Larry Wayne Solomon, Glen D. <i>MEDTAPP Ohio Cardiovascular Disease Value Collaboration</i> Case Western Reserve University \$112,998	Hall, Ashley Elizabeth Ware, Jennifer (Jen) <i>Sustainable Pathways: Transforming Educational Activities through Media (TEAM)</i> Wright State Applied Research Corporation \$16,700	Susuki, Keiichiro <i>Disruption of excitable axonal domains by glucose metabolite methylglyoxal</i> DHHS, National Institute of Neurological Disorders and Stroke \$341,425
Solomon, Glen D. <i>MEDTAPP Ohio Cardiovascular Disease Value Collaboration</i> Case Western Reserve University \$11,015	Davis, Stephanie Brun, Carl F. <i>The overall success of students who transferred career-technical (CTAG) credit to Wright State University</i> Ohio Department of Higher Education \$2,000	Littell, Timothy Jason <i>Conversations on Student Success: Building Momentum for Clear Pathways to Academic Success and Equity</i> Ohio Department of Higher Education \$19,000
Chen, Keke <i>Graph Mining Algorithms and Visualization Techniques for Analyzing Large-Scale Complex Provenance Data</i> Wright State Applied Research Corporation \$16,700	Brun, Carl F. <i>Establishment of a West Regional Transfer Group for Exploring Transfer Best Practices</i> Ohio Department of Higher Education \$3,000	Rich, Mark M. Voss, Andrew A. <i>Novel Approaches to Therapy of Muscle Ion Channelopathies</i> DHHS, National Institute of Arthritis and Musculoskeletal and Skin Diseases \$537,978
Arumugam, Kuppuswamy <i>Functional hybrid metallopolymer architectures for nonlinear optical applications</i> Wright State Applied Research Corporation \$16,700	Dustin, Jack L. <i>Campus Election Engagement Project</i> Ohio Campus Compact \$248	Cates, Elizabeth E. <i>Dayton Veterans Affairs Medical Center IPA Agreement</i> Veterans Affairs Medical Center \$31,491
McGowin, Audrey E. <i>Analysis of municipal water source samples for the City of Wilmington, Ohio</i> City of Wilmington \$530	Williams, Clintoria <i>Roles of calcineurin isoforms in renal regulation of blood pressure</i> DHHS, National Institute of Diabetes and Digestive and Kidney Diseases \$344,420	Hammerschmidt, Chad R. <i>Water Sample Analysis</i> University of Mississippi \$3,890

Duby, John C. <i>Kinship Navigator Consortium FY 2019</i> Montgomery County Department of Job and Family Services \$90,964	Wolff, J. Mitch Acton, Marcus J <i>An Experimental Investigation into the Effect of Inlet Swirl on the Compression System of a Jet Engine</i> Dayton Area Graduate Studies Institute \$52,260	Gockel, Joy E. <i>Achievable Microstructures Through Multi-Beam Additive Manufacturing</i> Ohio Space Grant Consortium \$9,000
Andersh, Dennis J. Hall, Ashley Elizabeth <i>The Dayton Metro Plan for Economic Diversity Phase II</i> DoD, Office of Economic Adjustment \$1,845,337	Wolff, J. Mitch <i>CFD Analysis of a Celestial Icosahedron Shaped Vacuum Lighter than Air Vehicle</i> MacAulay-Brown, Inc. \$22,680	Bennett, Eric S. <i>Collaborative Research: Data-driven integration of biological with in-silico experiments to determine mechanistic effects of N-glycosylation on cellular electromechanical functions</i> NSF, Miscellaneous \$773,970
Mott, Robert <i>Clinical Research Affiliation and Operations Agreement CY19 - CY21</i> Premier Health Partners \$2,418,405	Hitzler, Pascal Schmidt, Daniel P <i>Identifying Common Sense Comprehension Gaps of Undifferentiated Adaptive Cognitive Agents</i> Dayton Area Graduate Studies Institute \$44,130	Wilson, Josephine F. <i>Disability and Rehabilitation Research Program</i> DHHS, Administration for Community Living \$489,956
Mott, Robert <i>Clinical Research Coordinator Staffing Agreement at Miami Valley Hospital CY19 - CY21</i> Premier Health Partners \$2,912,150	Winkler, Jonathan Reed <i>Teaching Substitute Reimbursement for Arvind Elangovan Special Fellowship</i> University of Erfurt \$15,166	Houpt, Joe <i>Collaborative Research: Determining the fundamental cognitive properties of decision making</i> NSF, Miscellaneous \$239,880
Daniels, Jennifer L <i>CTRA - ODYSSEY EXTENSION</i> Regeneron Pharmaceuticals Inc. \$45,900	Gordon, Seth E. <i>Veterans Across the Spectrum: Transition to Transformation</i> Ohio Humanities \$18,000	Sharma, Amit Raj <i>Applications in Computational and Experimental Electromagnetics (ACE-EM)</i> Wright State Applied Research Corporation \$86,000
Kadakia, Madhavi P. <i>CTRA - ODYSSEY EXTENSION</i> Regeneron Pharmaceuticals Inc. \$183,918	Schroeder, Noah L. <i>Exploring an Expanded Theory of Multimedia Learning for Supporting Distributed Learning</i> Arizona State University \$73,507	Saville, Michael <i>Passenger and Baggage Simulation for Synthetic Image Generation (PASSIG)</i> Innovision LLC \$28,367
Ramirez-Vick, Jaime E. Gockel, Joy E. Srinivasan, Raghavan Nosoudi, Nasim <i>Low Vacuum Field Emission Scanning Electron Microscope (LVFESEM + EBSD + STEM) and a Low-Angle X-Ray Diffraction Instrument for Core Microstructural Characterization</i> DoD, Air Force Office of Scientific Research \$1,106,865	Subban, Jennifer <i>National Issues Forum: "A Nation In Debt"</i> C.F. Kettering Foundation \$150	Tichnell, Tracey Ann <i>Qualitative Analysis of Parent Education Focus Groups for Stark County ESC</i> Stark County Educational Service Center \$3,311

Kinzler, Nicole <i>GPRA Training, Data Collection and Reporting for the Ohio State Opioid Response (SOR) Project</i> Ohio Department of Mental Health and Addiction Services \$560,199	Schultz, Michelle S. <i>SOPP Practicum Training: New Creations Counseling Center FY20</i> New Creations Counseling Center \$7,000	Warfield, Janeece <i>Parents Early Childhood Education - Positive Action Choices Training (PECE-PACT)</i> Montgomery County ADAMH Services Board \$69,288
Schultz, Michelle S. <i>SOPP Practicum: Center for Adolescent Services FY2020</i> Center for Adolescent Services \$9,000	Schultz, Michelle S. <i>SOPP Practicum: New Creations Counseling Center FY2020</i> Self Matters LLC \$2,400	Warfield, Janeece <i>SOPP Internship: CompDrug FY 2020</i> CompDrug \$16,000
Schultz, Michelle S. <i>SOPP Practicum Training: Central Clinic: FY2020</i> Central Clinic \$8,000	Schultz, Michelle S. <i>SOPP Practicum Training - South Community Mental Health Center - FY2020</i> South Community Mental Health Center \$16,000	Warfield, Janeece <i>SOPP Internship: Miami County Juvenile Court FY 2020</i> Miami County Juvenile Court \$16,000
Schultz, Michelle S. <i>SOPP Practicum: Cordell Associates, LLC FY2020</i> Cordell & Associates \$12,000	Schultz, Michelle S. <i>SOPP Practicum Training: Summit Behavioral Health: FY2020</i> Summit Behavioral Healthcare \$9,000	Warfield, Janeece <i>SOPP Internship: Summit Behavioral Healthcare FY 2020</i> Summit Behavioral Healthcare \$16,000
Schultz, Michelle S. <i>SOPP Practicum: Court Clinic Forensic Services FY2020</i> Court Clinic Forensic Services \$9,000	Schultz, Michelle S. <i>SOPP Practicum: University of Cincinnati FY2020</i> University of Cincinnati \$16,300	Brun, Carl F. <i>Ohio Mathematics Bridges to Success</i> Ohio Department of Higher Education \$30,000
Schultz, Michelle S. <i>SOPP Practicum: Hearthstone Psychology FY2020</i> Hearthstone Psychology \$10,000	Schultz, Michelle S. <i>SOPP Practicum Training FY20 - University of Dayton Counseling Center</i> University of Dayton Counseling Center \$12,400	Meyer, Kathryn B <i>University of Dayton Roesch Library Archives Public History Internship</i> University of Dayton \$7,680
Schultz, Michelle S. <i>SOPP Practicum: Kline and Associates - FY20</i> Kline and Associates \$8,000	Schultz, Michelle S. <i>SOPP Clinical Traineeship</i> Montgomery County ADAMH Services Board \$62,000	Wolff, J. Mitch Roberts, Rory A. <i>OSGC Undergraduate Summer Internships</i> Ohio Space Grant Consortium \$14,600
		Wiehe, Michael R. Tichnell, Tracey Ann Dockery, Jane L. <i>Greene, Inc. Strategic Plan</i> Greene, Inc. \$27,779

Daniulaityte, Raminta <i>Crystal in the Gem City: Characterizing a Methamphetamine Outbreak in the Area of a High Prevalence of Illicit Fentanyl Use</i> DHHS, National Institute on Drug Abuse \$227,814	Prayson, Michael J. <i>CTRA - AQUEOUS-PREP</i> University of Maryland \$143,640	Juvina, Ion <i>Recovering the Sources of Individual Differences Unduly-named Errors (ReSIDUE)</i> DoD, Defense Advanced Research Projects Agency \$392,258
Rigling, Brian D. <i>Synthesis, Exploitation, Analysis, and Belief for Autonomous Sensor Systems (SEABASS)</i> DoD, Air Force, Air Force Research Laboratory \$579,000	Bubulya, Paula <i>Gene Regulatory Functions for the Nuclear Speckle Protein SON</i> DHHS, National Institute of General Medical Sciences \$450,000	Higgins, Steven R. <i>Mechanisms of Complex Atomic- to Pore-Scale Geochemical Processes</i> Oak Ridge National Laboratory \$72,000
Gross, David C. <i>Interactions with Semi-Autonomous Remotely Piloted Aircraft (RPA)</i> DoD, Air Force, Air Force Research Laboratory \$100,000	Rooney, Thomas <i>Dairymen's Natural Resources Stewardship</i> Dairymen's, Inc. \$9,735	Kumar, Gogi Miller, Marvin E. <i>GSK3 Beta Study in Patient with Myotonic Dystrophy 1</i> Children's Hospital Medical Center (Cincinnati) \$80,168
Rigling, Brian D. Palmer, Luther R. Garber, Fred D. Saville, Michael Shaw, Arnab K. Wischgoll, Thomas <i>SIRCUS TO2: Comprehensive Learning Objectives for Warfighter Needs (CLOWN)</i> DoD, Air Force, Air Force Research Laboratory \$50,000	Wolff, J. Mitch <i>Ohio Space Grant Consortium Campus Allocation Funds 19-20</i> Ohio Space Grant Consortium \$2,200	Goswami, Tarun Lutz, Anne M. <i>Advanced Biomaterials Characterization Techniques at the Interface of Structural Biology and Materials</i> Dayton Area Graduate Studies Institute \$44,130
Edwards, Sue <i>Support for Position of Senior Associate Director, SCTAI 2020</i> Ohio Department of Higher Education \$17,695	Everhart, Kim <i>Science, Mathematics, and Research for Transformation (SMART) Defense Scholarship Program 2019/2020</i> American Society for Engineering Education \$150,405	Rich, Mark M. <i>Development of novel therapy for hypokalemic periodic paralysis</i> DHHS, National Institute of Arthritis and Musculoskeletal and Skin Diseases \$51,534
Edwards, Sue <i>Support for Position of Associate Director, SCTAI, FY2020</i> Ohio Department of Higher Education \$77,389	Barrett, Ellen S Williams, Julie L. <i>Breaking Silences Dissemination Impact Project</i> American Psychological Foundation \$6,138	Wolff, J. Mitch <i>Ohio Space Grant Consortium Undergraduate Scholarship - 2019-2020</i> Ohio Space Grant Consortium \$20,500
	Lee, Yi-Hui <i>Psychosocial Factors and Prevention of HIV/AIDS Related Risky Sexual Behaviors Among College Students</i> Sigma Theta Tau International \$5,000	Craighead, Daniel J. <i>General Operating Support: Art Galleries</i> Ohio Arts Council \$7,251

Dewey, Dawne Stolz, Bill <i>Aviation History Outreach Program Kit</i>	Elbasiouny, Sherif M. <i>Neurodegeneration mechanisms common to both ALS and AD</i>	Parikh, Pratik <i>REU Supplement for Collaborative Research: Optimizing Trauma Care Network Design (CMMI#1761009)</i>
National Aviation Heritage Area \$5,000	DHHS, National Institute of Neurological Disorders and Stroke \$286,836	NSF, Miscellaneous \$14,880
Parikh, Pratik McCarthy, Mary C. Parikh, Priti <i>Trauma Cost vs. Care: Estimations for Ohio's Current Trauma System and Evaluation of Alternative Configurations</i>	Rigling, Brian D. <i>Synthesis, Exploitation, Analysis, and Belief for Autonomous Sensor Systems (SEABASS)</i>	Terry, John B. <i>CTRA - CHARM</i>
Ohio Department of Public Safety \$75,000	DoD, Air Force, Air Force Research Laboratory \$250,000	Biogen MA, Inc \$97,041
Gockel, Joy E. <i>Vibration Bending Fatigue Properties of Additively Manufactured Nickel-Based Superalloy 718 with As-Built Surfaces</i>	Dockery, Jane L. <i>Southwest Ohio Regional Prevention Coordinator Proposal</i>	Young, Henry Daniel <i>Support for 2019 ASM International Teacher's Materials Camp in the Dayton Metro Region</i>
Universal Technology Corporation, LLC \$20,000	Ohio Department of Job and Family Services \$676,385	DoD, Air Force Office of Scientific Research \$12,600
Priezjev, Nikolai <i>Modeling of the contact angle hysteresis and wetting properties of oil droplets on textured surfaces</i>	Hershberger, Paul J. Bricker, Dean Crawford, Timothy Wilson, Josephine F. Pei, Yong <i>Real-time Assessment of Dialogue in Motivational Interviewing training (ReadMI)</i>	Susuki, Keiichiro <i>Cell type-specific roles of calpain-2 in formation of peripheral myelinated nerves</i>
Petroleum Research Fund - American Chemical Society \$110,000	DHHS, Agency for Healthcare Research and Quality \$174,994	DHHS, National Institute of Neurological Disorders and Stroke \$75,000
Roberts, Rory A. <i>Development of a Vehicle Level Integration Tool for Aircraft Energy Management</i>	Roberts, Rory A. <i>Advanced Power Density Improvements to Electrical Generation Systems</i>	Hershberger, Paul J. Pei, Yong Binder, Stephen Bruce Crawford, Timothy Wischgoll, Thomas Pavlack, Todd A <i>An Interactive Game for Cultural Proficiency Training Featuring Virtual Reality Immersion (IGCPT)</i>
Dayton Area Graduate Studies Institute \$30,240	Spectral Energies, LLC \$50,000	Ohio State University \$399,465
Gross, David C. <i>Interactions with Semi-Autonomous Remotely Piloted Aircraft (RPA)</i>	Kinzeler, Nicole <i>2918-2021 SAMHSA-funded MHAT Evaluation</i>	Polanka, Sue <i>High School Outreach for Substance Abuse Prevention and Education</i>
DoD, Air Force, Air Force Research Laboratory \$1,800,000	Mt. Olive Baptist Church \$37,500	University of Iowa \$10,000

Daniulaityte, Raminta <i>Optimizing HEALing in Ohio Communities (OHIO)</i> University of Cincinnati \$28,419	Huang, George <i>A Thermo-fluids Analysis of Aircraft Thermal Energy Management and Precision Airdrop</i> Dayton Area Graduate Studies Institute \$49,680	Raymer, Michael L. Banerjee, Tanvi <i>APEX Analytics</i> Wright State Applied Research Corporation \$100,000
Wilson, Josephine F. <i>Virtual Office Space (VOS): Improving Employment Opportunities for Individuals</i> DHHS, Administration for Community Living \$199,767	Mast, Ryan C. <i>Child and Adolescent Psychiatry</i> Ohio Department of Mental Health and Addiction Services \$35,000	Parikh, Pratik <i>Modeling and Analysis of the Manufacturing Facility</i> L3Harris \$49,976
Arumugam, Kuppuswamy <i>Synthesis Reaction and Dyeing Properties of Angular Phenoxazine and Their 6-Aryl Derivatives of Benzo[A]Phenoxazin-5-one via Suzuki Miyaura Cross-coupling Reaction.</i> Benue State University \$8,400	Merrill, Brian M. <i>Community General Psychiatry</i> Ohio Department of Mental Health and Addiction Services \$15,000	Goyal, Amit <i>CTRA - AEGIS II</i> CSL Behring LLC \$181,393
Roberts, Rory A. <i>Aerospace Propulsion Outreach Program - Thrust Vectoring</i> Universal Technology Corporation \$5,659	Welton, Randon S. <i>Adult General Psychiatry</i> Ohio Department of Mental Health and Addiction Services \$15,000	Roman, Brenda White, Mary T. D'Epiro, Giselle K <i>Addressing the opioid epidemic through an all-Ohio collaborative medical school training curriculum</i> Northeast Ohio Medical University \$49,999
Zhang, Junjie <i>Mission-oriented Intelligent Firmware Modeling</i> Transportation Research Center Inc. \$117,479	Gainer, Danielle M <i>Rural General Psychiatry</i> Ohio Department of Mental Health and Addiction Services \$10,000	Adelhakeem Abdelrehim, Tamer <i>Dayton VA Medical Center IPA Agreement - Tamer Abdelrehim</i> Veterans Affairs Medical Center \$34,974
Klingbeil, Nathan W. <i>The Ohio LSAMP Alliance</i> Ohio State University \$39,250	Pope, Jonathan G <i>CTRA - RICODIFY</i> Syneos Health, LLC \$52,231	Zhelay, Tetyana <i>Veterans Affairs Medical Center IPA Agreement - Zhelay</i> Veterans Affairs Medical Center \$10,662
Juvina, Ion <i>Cognitive Models of Social Intelligence and Teamwork</i> Wright State Applied Research Corporation \$28,279	Kinzeler, Nicole <i>Evaluation Services for Montgomery County Juvenile Court</i> Montgomery County Juvenile Court \$28,350	Travers, Jeffrey B. <i>Laboratory Animal Resources Care</i> Veterans Affairs Medical Center \$19,200
	Wolff, J. Mitch Roberts, Rory A. <i>Power/Thermal Management of Hypersonic Air Vehicles</i> Southwestern Ohio Council for Higher Education \$78,200	

Li, Sheng <i>Rheological Description Modifications for Lubricated Rough Surface Contacts of Rollers and Gears</i> Ohio State University \$41,000	Paul, Kimberly A. <i>NCI Award Under DCOP Fiscal Agency Agreement</i> Dayton Clinical Oncology Program \$348,993	Gentile, Julie P. Cowan, Allison Harper, Bethany L. Mast, Ryan C. Gainer, Danielle M Harper, Kari S <i>Ohio's Telepsychiatry Project</i> Ohio Department of Developmental Disabilities \$225,000
Mast, Ryan C. <i>Child Psychiatric Placements</i>	Paul, Kimberly A. <i>Miscellaneous Awards Under DCOP Fiscal Agency Agreement</i>	Rigling, Brian D. <i>Synthesis, Exploitation, Analysis, and Belief for Autonomous Sensor Systems (SEABASS)</i>
Montgomery County ADAMH Services Board \$150,000	Dayton Clinical Oncology Program \$16,959	DoD, Air Force, Air Force Research Laboratory \$75,000
Roberts, Rory A. Wolff, J. Mitch <i>A Hierarchical and Extendable, Component-based Simulation Tool for Aircraft Thermal Management Systems</i> CFD Research Corporation \$42,000	Elbasiouny, Sherif M. <i>Generalization of ALS Markers</i> Wright State Applied Research Corporation \$19,653	Leaman, Douglas <i>Prevention of Adenovirus Pathogenesis Through Downregulation of the Apical Adenovirus Receptor</i> DHHS, National Institute of Allergy and Infectious Diseases \$375,000
Hossler, Kathleen A. <i>A soil bulk density metric to improve Level 2 assessments of wetland condition</i> U.S. Environmental Protection Agency \$54,789	Janson, Christopher G <i>Differential clearance of the pyroglutamate abeta through arachnoid and meningeal lymphatics in Alzheimer Disease.</i> DHHS, National Institute on Aging \$389,263	Cao, Caroline <i>Intelligent coach for medical simulation training</i> Wright State Applied Research Corporation \$20,000
Gentile, Julie P. <i>Mental Illness-Intellectual Disability Residency Placements</i>	Killian, Jerri <i>University Partnership Program Grant 2019-2021</i> Ohio Department of Job and Family Services \$246,500	Gentile, Julie P. Cowan, Allison Gainer, Danielle M Harper, Kari S <i>Residency Traineeship Program for Psychiatric Residents in Dual Diagnosis - MI/DD</i>
Montgomery County ADAMH Services Board \$30,000	Jackson, LaTrelle D <i>Research Evaluation Enhancement Projects (REEP) - MIH-20-38</i> Ohio Commission on Minority Health \$75,000	Ohio Department of Developmental Disabilities \$80,000
Dudley, Emily S. <i>Biopsy Study</i>	Baudendistel, Craig M. <i>2020 SAE Baja Raider Racing</i> Ohio Space Grant Consortium \$5,000	
Devicor Medical Products, Inc. \$11,766		
Hershberger, Paul J. Leeds, Frederic Stuart Crawford, Timothy Jacobson, Michael D <i>Wright MAT</i>		
DHHS, Substance Abuse and Mental Health Services Administration \$149,993		

Kinzeler, Nicole <i>The Warriors Supporting Wellness (WSW) Project</i> Montgomery County ADAMH Services Board \$25,000	Biesemeyer, Destinee N. Rando, Robert A. <i>Continuation of Wrap Around Victim Services</i> Ohio Office of the Attorney General \$118,080	Hall, Ashley Elizabeth Ware, Jennifer (Jen) Miura, Yoko <i>APEX</i> Wright State Applied Research Corporation \$120,001
Mian, Ahsan Akm <i>Additively Manufactured Embedded Electronics</i> Southwestern Ohio Council for Higher Education \$11,040	Rigling, Brian D. <i>Synthesis, Exploitation, Analysis, and Belief for Autonomous Sensor Systems (SEABASS)</i> DoD, Air Force, Air Force Research Laboratory \$164,600	Kinzeler, Nicole <i>Dayton Police Department (DOD) Mental Health Awareness Training Grant</i> Dayton Police Department \$24,975
Liu, Yang <i>Developing statistical methods for analyzing somatic mutations</i> Fred Hutchinson Cancer Research Center \$22,761	Stark, Wayne F Shannon, Vaughn <i>Support for the Center for Liberal Arts Student Success Center and the Model United Nations Program at Wright State University</i> Ohio Department of Higher Education \$150,000	Gentile, Julie P. <i>Dayton Police Department (DOD) Mental Health Awareness Training Grant</i> City of Dayton, Miscellaneous \$27,185
Fruchtnicht-Ponchak, Paige E <i>Light, shadow, and color, an exhibition of Jay Hoops' engaging and poetic photography</i> FotoFocus \$725	Turner Sherwin, Catherine M <i>Pharmacometric Modeling and Simulation for Evaluation of Bioequivalence for Leuprolide Acetate Injection</i> University of Utah \$7,022	Brun, Carl F. <i>Secondary Career-Technical Alignment Initiative</i> Ohio Department of Higher Education \$1,000
Montague, Benjamin <i>Locked Unloaded</i> FotoFocus \$6,300	Chen, Keke <i>Scalable Visual Validation for Large-Scale Sequence Data Clustering</i> Wright State Applied Research Corporation \$20,000	Travers, Jeffrey B. <i>Platelet Activating Factor and Epidermal Cytotoxicity</i> DHHS, National Heart, Lung, and Blood Institute \$375,000
Pavel Sizemore, Ioana E. <i>Developing a Raman Spectroscopy-based methodology for the on-site, rapid detection of fentanyl and other illicit drugs in street samples of powder or pill form</i> Wright State Applied Research Corporation \$20,000	Turner Sherwin, Catherine M <i>Pharmacometric Modeling of Immunosuppressants for Evaluation of Bioequivalence Criteria</i> University of Utah \$3,745	Turner Sherwin, Catherine M <i>Pharmacokinetics of Oral L-citrulline in Infants at High Risk of Developing Pulmonary Hypertension Associated with Bronchopulmonary Dysplasia</i> University of Utah \$18,900
Srinivasan, Raghavan <i>Process development for novel composites based on the Al-W alloy system</i> Wright State Applied Research Corporation \$20,000		Kinzeler, Nicole <i>GPRA Training, Data Collection, and Reporting for the Ohio Medication Assisted Treatment - Prescription Drug and Opioid Addiction (Ohio MAT PDOA) Project</i> Ohio Department of Mental Health and Addiction Services \$153,071

Hershberger, Paul J.
Leeds, Frederic Stuart
Wright MAT Train the Trainer Project
Ohio Department of Mental Health and
Addiction Services
\$15,000

LaHuis, David
Human-Centered Science Laboratory
(HCSL) Support of AFRL Activities
Wright State Applied Research
Corporation
\$20,000

Roman, Brenda
AHEC Support

Ohio Department of Higher Education
\$244,004

Paul, Kimberly A.
Clinical Teaching Subsidy

Ohio Department of Higher Education
\$2,860,830

Paul, Kimberly A.
Family Practice Program
Ohio Department of Higher Education
\$365,964

Paul, Kimberly A.
Primary Care Residencies
Ohio Department of Higher Education
\$256,420

Paul, Kimberly A.
Geriatric Medicine Program
Ohio Department of Higher Education
\$70,863

Brown, Joylynn M.
Hill, Sara Jane
Student Athlete Opportunity Funds 2018
-2019
Horizon League
\$227,510

Hill, Sara Jane
Student Athlete Opportunity Funds 2019
-2020
Horizon League
\$223,910