

Winter 12-1-2008

WSU Research News, Winter 2008

Office of Research and Sponsored Programs, Wright State University

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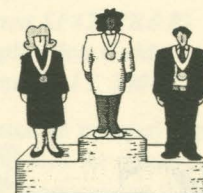
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Early/Start Augmentation WSU Internal Awards Announced

We are pleased to announce the selection of awardees of the Research Challenge Early Start/Augmentation program. Of 42 proposals submitted, 12 projects were funded for a total of \$265,395. The primary objective of the Research Challenge program is to furnish seed funding to faculty in order to produce additional sponsored research. Congratulations to those

receiving an award (listed below) from the November 2007 call for applications. More information on this program may be found at our website: <http://www.wright.edu/rsp/internal.html>.



Francisco J. Alvarez	BSOM	\$22,000	<i>Development of Synaptic Inputs on Spinal Interneurons</i>
Paula Bubulya	COSM	\$26,250	<i>Nuclear Organization and Gene Expression</i>
W. Cameron Chumlea	BSOM	\$18,000	<i>Development of a Computer-Based Analysis Method for Skeletal Maturity</i>
Jason A. Deibel	COSM	\$39,672	<i>Terahertz Time-Domain Spectroscopy of Novel Semiconductor Systems</i>
Haibo Dong	CECS	\$21,000	<i>Computational Analysis of Biometric Dynamic Motion</i>
Dana L. Duren	BSOM	\$23,000	<i>Healthy Joints: Genetic and Environmental Influences</i>
Julian Gomez-Cambronero	BSOM	\$22,000	<i>Cytoskeletal Dynamics in Neutrophil Chemotaxis</i>
A. Ardeshir Goshtasby	CECS	\$19,000	<i>Design of a Stereo Camera System Using Cylindrical Mirror</i>
Chad R. Hammerschmidt	COSM	\$19,473	<i>Analysis of Mercury Methylation in Aquatic Systems by Inductively Coupled Plasma Mass Spectrometry</i>
Bin Wang	CECS	\$16,000	<i>Open Spectrum Wireless Communication and Networking</i>
Christopher N. Wyatt	BSOM	\$20,000	<i>AMP- Activated Protein Kinase and Oxygen-Sensing</i>
Xiaodong Zhang	CECS	\$19,000	<i>State-of-Health Monitoring of Li-Ion Batteries</i>

Internal Funding Programs

Research Travel Grant Program

As of February 18, 2008, the *Research Travel Grant Program* for the remainder of Fiscal Year 2008 has been eliminated, and no more applications will be accepted during this time period. Future announcements regarding the status of the Research Travel Grant Program will be posted at the Research and Sponsored Programs website.

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Notes from the RSP

For most salary charges on grants and contracts, there is a corresponding charge for fringe benefits. Like salaries, fringe benefits are considered "direct" costs because they are identifiable as costs associated with particular projects. Unlike salaries, they are charged pursuant to a rate agreement negotiated with the federal government. The feds don't tell us how much we can pay folks, but they do tell us how much we have to charge on grants and contracts for the fringe benefits.

Fringe benefit rate agreements are negotiated every year, and are based solely on actual costs in preceding years. This means that the rate that goes into effect every July 1 may bear little or no relation to the costs that the university thinks will actually obtain. Nevertheless, best estimates of future rates have to be used in grant proposals. In the past, RSP has arbitrarily increased fringe benefit rate projections in "out" years by simply adding one-half a percentage point each year, starting each time with the negotiated rate for the current year.

For the most part, this state of affairs has not resulted in too many anomalies. In the past two years, however, the fringe benefit rate for unclassified staff has gone up 10 percentage points—ten times what was projected! We've been caught off-

guard by this, but there isn't a whole lot that can be done. Because these are direct charges, it is somewhat akin to a price hike by an equipment vendor: the grant has to take the hit.

Of course if the rates go down, the grant gets to keep the surplus. And in fact we are anticipating that the rate will go down next year, so this should be of some help. In addition, the Controller's Office (which does the negotiation with the feds) will be pressing hard to change the methodology used so that such rate fluctuations are minimized in future. In the meantime, you may refer to our website at <http://www.wright.edu/rsp/rates.html> for current projections. This page will be updated as we receive any new information from the Controller's Office.

Bill Sellers

GRANTS.GOV

Transition to Adobe Packages

In July 2007, federal grant-making agencies were given the option to post opportunities on Grants.gov using Adobe forms rather than the PureEdge forms currently being used. This transition is now in full swing, and many agencies are posting applications in the Adobe format. The transition is tentatively scheduled to be completed by the end of fiscal year 2008.

In order to complete the Adobe application packages in the Adobe format, you must download version 8.1.2 Adobe Reader. This is a free download which you can obtain on the Grants.gov website at http://www.grants.gov/help/download_software.jsp.

Please note that if you have Adobe Professional or another version of Adobe Acrobat installed on your computer, you cannot use these programs for the Grants.gov Adobe package submission. If you try to use any other version than Adobe Reader 8.1.2 to submit your Grants.gov proposal, it will result in an error message at the time of submission. It is recommended that when you download the Adobe 8.1.2 Reader, you set this version as your Adobe Reader default so that if you have other versions on your computer, it will not revert back to that version for the reader. For frequently asked questions regarding the use of Adobe Reader compatible versions with Grants.gov, go to their website at <http://www.grants.gov/assets/AdobePEFAQs.pdf>.



During the transition period, there will be some application packages still in PureEdge format, so it is important to note in the proposal guidelines which type of software will be needed in order to submit your proposal. If more than one person is working on the package, each person must be using the same software to avoid problems with submission. The PreAward staff in RSP has already downloaded the Adobe Reader 8.1.2 software and is ready to help you with your submissions. Instructions for use of the Adobe packages will be included in all future Grants.gov training workshops.

Grants.Gov Training Workshop

RSP will be offering a hands-on Grants.gov training workshop on March 25, 2008 from 12:00 to 1:00 p.m. in 012 Library Annex. During this workshop, we will take a look at the Grants.gov website, discuss the required software programs (both PureEdge and Adobe) needed to access the applications, review a sample application, and provide tips on a successful Grants.gov submission.

Registration is limited to the first 15 participants so that everyone is assured access to a computer. We ask that those wishing to attend please register by March 20, 2008. For additional information or to register, please contact Jackie Frederick at ext. 2664 or jackie.frederick@wright.edu.

For additional information and tutorials, please visit the resource page of Grants.gov at http://www.grants.gov/applicants/app_help_reso.jsp.



Sponsor ALERTS

National Science Foundation (NSF)

NSF Replaces SSNs with NSF IDs in FastLane

In response to Government mandates, the National Science Foundation is continuing to take proactive steps to protect its customers' personally identifiable information and reduce the use of Social Security Numbers (SSNs).



NSF is continuing to reduce the use of SSNs in applications that do not require it for business purposes and have introduced a new security feature throughout FastLane. NSF IDs will replace SSNs as their primary means of identifying applicants. Applicants will use their NSF ID – in conjunction with their FastLane password – to log into FastLane.

In the fall, NSF started the process of implementing NSF IDs to replace the use of SSNs by assigning new users of the FastLane Grants applications an NSF ID when they registered.

Existing FastLane customers do not need to take any action. After December 15, 2007, all existing FastLane customers will have been assigned an NSF ID to replace their SSN as their unique identi-

fier. When an applicant logs into FastLane with his/her SSN, an intermediary page will display their NSF ID. Applicants will also be able to retrieve their NSF ID by clicking on the NSF ID lookup link or by contacting Research and Sponsored Programs. For a limited time, applicants will have the option to use their SSN for login. If an applicant previously used what was called a pseudo SSN to log in to the FastLane, that number is now your NSF ID. Simply use it to login as you have in the past.

NSF will still require SSNs in some situations. For example, NSF will continue to need your SSN to distribute reimbursements when applicable.

National Institutes of Health (NIH)

2008 Salary Limitation on Grants, Cooperative Agreements, and Contracts

Every year since 1990 Congress has legislatively mandated a provision limiting the direct salary that an individual may receive under an NIH grant. For FY 2008, Public Law 110-161: Consolidated



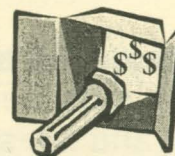
Appropriations Act, 2008 restricts the amount of direct salary to Executive Level I of the Federal Executive Pay scale. The Executive Level I annual salary rate was \$186,600 for the period January 1 through December 31, 2007. Effective January 1, 2008, the Executive Level I salary level increased to \$191,300. Guidance on other legislative mandates contained in P.L. 110-161 will be issued in the near future.

For complete details on the salary limitation policy, please go to <http://grants.nih.gov/grants/guide/notice-files/NOT-OD-08-035.html> which includes guidelines on how to apply the restriction.

Updated SF424 (R&R) Application Guide (January 15, 2008)

NIH has posted an updated application guide to be used for preparing and submitting NIH applications through Grants.gov. This guide is to be used with all PureEdge application packages indicating Version 2 and Version 2a and can be found at <http://era.nih.gov/ElectronicReceipt>.

Find Funding Sources



A hands-on session that will provide an introduction to the electronic resources available to faculty and staff for matching research interests with funding opportunities. The workshop will be held in **012 Library Annex on March 27, 2008**, from 12-1 P.M.. The focus of this workshop is the electronic database available on the RSP homepage,



COS (Community of Science)

which in addition to assisting you in finding funding, offers a way to *promote your research and identify experts and collaborators through "COS Expertise."*

Registration is limited to the first 15 participants so that everyone is assured access to a computer. We ask that those wishing to attend please register by **March 20, 2008**. For additional information or to register, please contact Jackie Frederick by email at jackie.frederick@wright.edu or by telephone at **ext. 2664**.

Collegiate Inventors Competition

Each year up to 15 finalists receive an all-expenses paid trip to present their work to a panel of expert judges.

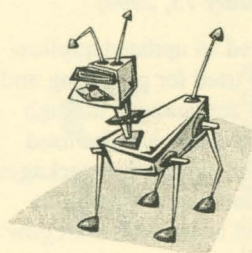
One Undergraduate and one Graduate winner or team each receive \$15,000.

One Grand Prize winner or team receives \$25,000.

Academic advisors of each winning team also receive a cash award.

Introduced in 1990, the **Collegiate Inventors Competition** has rewarded and encouraged hundreds of students to share their inventive ideas with the world. The Competition promotes exploration in invention, science, engineering, technology, and other creative endeavors and provides a window on the technologies from which society will benefit in the future.

Students must be enrolled (or have been enrolled) full-time in any U.S. or Canadian college or university at least part of the 12-month period prior to the date the entry is submitted. In the case of a team (maximum of four students), at least one member of the team must meet the full-time eligibility criteria. The other team members must have been enrolled on a part-time basis (at a minimum) sometime during the 24-month period prior to the date the entry is submitted.



JUDGING

The committee of judges represents the fields of mathematics, engineering, biology, chemistry, physics, information technology, and medicine.

Entries are judged on the originality and inventiveness of the new idea, process, or technology, plus their potential value to society (socially, environmentally, and economically) and the scope of use.

SPONSORS

Abbott Fund

United States Patent and Trademark Office.



The Competition is operated by the
National Inventors Hall of Fame Foundation

<http://www.invent.org/collegiate/enter.html>

Our 6th Annual Conference:

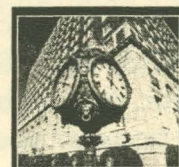


Ohio Valley Affiliates for Life Sciences

Transformational Research: A Bridge to Building Economies

April 14-15, 2008

• **Historic Brown Hotel** •
Louisville, Kentucky



TOPICS INCLUDE:

- * Future trends in the biotech industry and factors that will shape it
- * A close-up view of Carolina North - the players, key elements, impact and lessons for the OVALS region
- * Partnering with foundations
- * Changing landscape of universities and industry working together to spark and feed regional clusters
- * OVALS regional assets: what do we have - how can they be used to establish a competitive position
- * Congressionally mandated programs as a source of funding

OVALS POSTER COMPETITION

Back by Popular Demand!

Research Fair and Cash Awards

Go to: http://www.ovalsgroup.org/poster_competition.asp

Partners

University of Cincinnati ✂ ***University of Kentucky*** ✂ ***University of Louisville***
Wright State University ✂ ***Ohio University***
BIO/START ✂ ***Air Force Research Laboratory*** ✂ ***CincyTechUSA***
Commerce Lexington ✂ ***Dayton Development Coalition***

REGISTRATION

<http://www.ovalsgroup.org/conferences.asp>

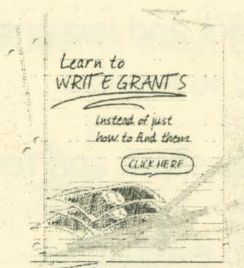
**Planning on writing a grant?
Grant Proposal Writing Workshop
Plan to Attend!**

**Tuesday, May 6, 2008
8:30 a.m. to 3:00 p.m.
E156 A&B Student Union**

The Office of Research and Sponsored Programs is pleased to announce the return of Dr. Robert Lucas, Institute of Scholarly Productivity, to the campus for a special workshop for WSU faculty. Dr. Lucas is a nationally known research administrator, teacher, and writer, whose humorous and informative style makes him one of the most popular speakers in his field today. Dr. Lucas will be sharing his insights about the proposal process, including the following topics:

- ✓ How to identify fundable ideas
- ✓ How to locate likely sponsors
- ✓ How to draft a concept paper/foundation inquiry letter
- ✓ How to develop a strong and convincing proposal
- ✓ How to deal positively with reviewers comments

...and much more



Space is limited – 25 slots only*

This workshop will benefit faculty who would like to get started writing proposals for external support of their research or scholarly activities but who don't quite know where to begin. The \$200 registration fee will be waived for all WSU faculty. Those interested in attending should submit a completed application form (below) and return it to RSP, 201J University Hall, by Friday March 21, 2008. You may also access an application form at <http://www.wright.edu/rsp>, click on "Proposal Preparation" and scroll to "Application for Proposal Writing Workshop." Email the completed form to rsp@wright.edu. Your attendance will be confirmed by email.

All applicants must have a Faculty Research Interest Profile on file in RSP to be eligible to attend. (form available at <http://www.wright.edu/cgi-bin/profile.pl>)

Sign up today!

Name: _____

Department: _____

Rank: _____ Date of Appointment _____

Telephone # _____ E-mail: _____



*As space is limited, you are asked to make a firm commitment to attend. If you are unable to attend, please notify us by April 25, 2008 so that we may substitute someone from the waiting list.

"Are you having trouble starting that journal article?"
"Your publisher wanted that first chapter by when?"

The Office of Research and Sponsored Programs is pleased to invite WSU faculty to a

Scholarly Writing Workshop

presented by Dr. Robert Lucas, Institute of Scholarly Productivity. Dr. Lucas, a nationally known research administrator, teacher, and writer, will be sharing techniques and insights related to the writing process including

- confronting the myths about writing,
 - overcoming the major obstacles to writing,
 - fitting writing into available time,
 - varying the writing patterns to sustain momentum,
-and much more



Wednesday, May 7, 2008
8:30 a.m. to 12:00 p.m.
E156 A&B Student Union



Space is limited – 15 slots only*

The registration fee will be waived for all WSU faculty. Those interested in attending should submit a completed application form (below) and return it to RSP, 201J University Hall, by Friday March 21, 2008. You may also access an application form at <http://www.wright.edu/rsp>, click on "Proposal Preparation" and scroll to "Application for Scholarly Writing Workshop." Email the completed form to rsp@wright.edu. Your attendance will be confirmed by email.

All applicants must have a Faculty Research Interest Profile on file in RSP to be eligible to attend. (form available at <http://www.wright.edu/cgibin/profile.pl>)

Sign up today!

Name: _____

Department: _____

Rank: _____ Date of Appointment _____

Telephone # _____ E-mail: _____

*As space is limited, you are asked to make a firm commitment to attend. If you are unable to attend, please notify us by April 25, 2008 so that we may substitute someone from the waiting list.

AWARDS

The grants and contracts on these pages were awarded from September 2007 through December 2007

Boonshoft School of Medicine

Alter, Gerald M. <i>Graduate Research Assistant Stipend - Sonner</i> University of Cincinnati \$7,500	Bienenfeld, David G. <i>Psychiatry Resident Support at Twin Valley Behavioral Health through Good Samaritan Hospital</i> Twin Valley Psychiatric System \$201,666	Cope, Timothy C. Alvarez, Francisco J. Rich, Mark M. Engisch, Kathrin L. Fyffe, Robert E. W. <i>Synaptic Function: Effects of the Nerve Injury, Repair, and Altered Activity</i> DHHS, National Institute of Neurological Disorders and Stroke (NINDS) \$908,961
Alter, Sherman J. <i>Treatment of Pediatric Patients for Infections</i> Bayer Corporation \$600	Cauley, Katherine L. <i>AHEC Support</i> Ohio Board of Regents \$90,364	Czerwinski, Stefan Aleksander Siervogel, Roger M. Towne, Bradford <i>Genetic Analysis of Osteoporosis Risk Factors</i> DHHS, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMSD) \$479,781
Anstadt, Mark P. <i>Cardiac Ventricular Assist Study</i> MYOTECH, LLC \$37,500	Cauley, Katherine L. <i>Medicaid Support Services for Kettering Medical Center Network (KMCN) Patients</i> Kettering Medical Center \$27,237	Czerwinski, Stefan Aleksander Siervogel, Roger M. Towne, Bradford <i>Visceral Adiposity: Genetic and Environmental Influences</i> DHHS, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) \$331,842
Baumann, Michael A. Paul, Cassandra C. <i>License Agreement for AML14 and AML14.3D10 Cell Lines</i> AstraZeneca \$10,000	Cauley, Katherine L. Gebhart, Mark E. <i>SBIR/STTR E-Learning for Incident Command and Emergency Responder Role Training (InCERT)</i> JXT Applications, Inc. \$20,000	Dunn, Margaret M. <i>Miscellaneous Awards under DCOP Fiscal Agency Agreement</i> Dayton Clinical Oncology Program (DCOP) \$319,102
Berberich, Steven J. <i>Deciphering How Mdmx Deregulation Impacts the p53 Pathway</i> DHHS, National Cancer Institute (NCI) \$172,067	Cauley, Katherine L. Gebhart, Mark E. <i>SBIR/STTR E-Learning for WMD/HAZMAT Protection Training for Health Professionals</i> JXT Applications, Inc. \$20,000	
Bernstein, Jack M. <i>Treatment for Hospital Acquired Pneumonia</i> Theravance, Inc. \$1,200		

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.

Duren, Dana L. Siervogel, Roger M. Towne, Bradford <i>Genetic, Somatic, and Maturational Influences on Pediatric Skeletal Health</i> DHHS, National Institute of Child Health and Human Development (NICHD) \$301,468	Hangartner, Thomas N. <i>Evaluation of a Novel Treatment in Patients with Osteogenesis Imperfecta</i> Procter & Gamble Company \$7,543 Heffernan, Michael P. <i>Randomized, Double Blind, Placebo Controlled Study of ABT-874 in Chronic Plaque Psoriasis</i> Abbott Laboratories \$0 Klykylo, William M. <i>ODMH Child and Adolescent Psychiatry (Resident Stipend)</i> Ohio Department of Mental Health \$32,471 Klykylo, William M. <i>ODMH Child and Adolescent Psychiatry</i> Ohio Department of Mental Health \$21,000 McDougal, James N. <i>Epidermal-dermal Crosstalk in Responses to JP-8 Jet Fuel</i> DoD, Air Force Office of Scientific Research (AFOSR) \$37,195 McDougal, James N. <i>An In-vitro Study of Skin Penetration Rates for NTAs</i> Battelle Laboratories \$23,644 Michail, Sonia K. <i>The Use of VSL#3 in Irritable Bowel Syndrome in Children</i> DHHS, National Center for Complementary and Alternative Medicine (NCCAM) \$189,000	Moore, Dennis C. <i>Deaf Off Drugs and Alcohol: e therapy using community networks</i> DHHS, Substance Abuse and Mental Health Services Administration (SAMHSA) \$499,588 Moore, Dennis C. <i>The Community Health Initiative</i> DHHS, Substance Abuse and Mental Health Services Administration (SAMHSA) \$254,320 Morris, Mariana Lucot, James B. <i>Autonomic Biomarkers and Treatment for Gulf War Illness</i> DoD, Army Medical R&D Command \$687,530 Morrison, Ann K. <i>PROF-COMM-ODMH</i> Ohio Department of Mental Health \$89,000 Organisciak, Daniel T. <i>Antioxidants and Retinal Gene Expression Profiles</i> Ohio Lions Eye Research Foundation (OLERF) \$7,500 Pascoe, John M. Chumlea, W. Cameron <i>Academic Administrative Unit, Pediatrics</i> DHHS, Health Resources and Services Administration (HRSA) \$140,098 Pickoff, Arthur S. <i>Reach Out of Montgomery County (Fiscal Year 2007/2008)</i> Reach Out of Montgomery County \$306,706
Gebhart, Mark E. <i>ACC Emergency Preparedness</i> Ohio Department of Health \$1,500,000		
Gebhart, Mark E. <i>Training of Licensed Healthcare Professionals in Basic Disaster Life Support and Advanced Disaster Life Support</i> Ohio Department of Health \$110,000		
Gebhart, Mark E. <i>Completion of Calamityville Business Plan</i> Dayton Development Coalition \$26,135		
Gentile, Julie P. <i>CCOE: Dual Diagnosis: MIMR</i> Ohio Department of Mental Health \$80,000		
Gillig, Paulette M. <i>ODMH Rural Public Sector Psychiatry</i> Ohio Department of Mental Health \$19,623		
Hangartner, Thomas N. <i>Postmenopausal Evaluation and Risk Reduction</i> Pfizer, Inc. \$25,860		
Hangartner, Thomas N. <i>Pharmacogenetics Research Network and Knowledge Base/WSU</i> Indiana University \$12,058		

- Rapp, Richard C.
South Carolina Linkage Programs for Inmates
University of South Carolina
\$72,358
- Reo, Nicholas V.
Metabolomic Assessment of Estrogenic Endocrine Disruptor
Michigan State University
\$160,106
- Reo, Nicholas V.
Raymer, Michael L.
NMR-Based Metabolomics in Toxicology Research
Henry M. Jackson Foundation
\$91,830
- Siervogel, Roger M.
Chumlea, W. Cameron
Czerwinski, Stefan Aleksander
Towne, Bradford
Adiposity, Disease Risk Factors, and Lifetime Health
DHHS, National Institute of Child Health and Human Development (NICHD)
\$942,692
- Spears, William D.
Project SEEK
Center for Health Care Services (The)
\$31,499
- Sulentic, Courtney E.W.
3'alpha Enhancer Regulation by AhR and NF-kappaB/Rel Proteins
DHHS, National Institute of Environmental Health Sciences (NIEHS)
\$180,810
- Sun, Shumei S.
Chumlea, W. Cameron
Siervogel, Roger M.
Towne, Bradford
Childhood Precursors for Adulthood Metabolic Syndrome
DHHS, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
\$442,536
- Towne, Bradford
Siervogel, Roger M.
Choh, Audrey Cheng-Lin
Genetic Regulation of Adiposity and Associated CVD Risks
DHHS, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
\$529,216
- Wooley, Dawn P.
Inhibition of Category A Virus Infection Using Nanotechnology
Henry M. Jackson Foundation
\$50,000
- Wooley, Dawn P.
Neutralization of Plague Bacteria by Nanobodies
Henry M. Jackson Foundation
\$50,000
- College of Education and Human Services**
- Bargerhuff, Mary Ellen
Vernooy, Jeffrey A.
Embodiment Awareness, Mathematics, and the Blind
Virginia Polytechnic Institute and State University
\$42,776
- Collier, Jacqueline Kay
Regional Value Added Specialist (RVAS)
Battelle for Kids
\$6,500
- Davis, Stephanie
Capacity-Building Faculty Support Grant FY 2008
Ohio Department of Education
\$91,000
- Finegan, Colleen A.
Project KNOTiT: Strengthening Systems Capacity Collaboratively with Kansas, Nevada, Ohio, and Texas
Ohio State University
\$69,228
- Harris, Charlotte M.
Ohio Core: Supporting Student Learning with High Quality Teachers - Chemistry /Physics/Biology
Montgomery County Educational Service Center
\$106,020
- College of Engineering and Computer Science**
- Bourbakis, Nikolaos G.
Chung, Soon M.
Intelligent Model Assisted Sensing System (iMass) for Fast and Accurate Nuclear Material Interrogation
Purdue University
\$98,622
- Gallimore, Jennie J.
Patient Safety and the Primary Care Testing Process
University of Cincinnati
\$10,000
- Goshtasby, A. Ardeshir
Camp, John L.
Science, Mathematics, and Research for Transformation (SMART) Defense Scholarship Program - J. Camp
American Society for Engineering Education
\$14,433
- Goshtasby, A. Ardeshir
License Agreement for 3D Hand Held Bodyscan System for Clothing Design
3D Tailors, Inc. (formerly Rhodes E-Tailors, Inc.)
\$12,000
- Goswami, Tarun
Copp, Paul D.
Engine Component Design
Universal Technology Corporation
\$59,123

Grandhi, Ramana V. <i>Reliability-Based Multi-Disciplinary Design Optimization of Tactical Scale Underwater Vehicles</i> DoD, Office of Naval Research \$70,000	Narayanan, Sundaram <i>Virtual Simulation Infrastructure Development/EAGLES Training</i> Wright Brothers Institute, Inc. (The) \$80,000	Siferd, Raymond E. <i>High Speed Read Out Integrated Circuit for Optical Arrays</i> RNET Technologies, Inc. \$102,660
Hong, Lang <i>Video Tracking and Sensor Registration</i> General Dynamics Information Technology, Inc. (formerly Anteon Corporation) \$25,611	Narayanan, Sundaram <i>Wright State University's AFRL/DAGSI Challenge Grant Collaboration with Qbase</i> Dayton Area Graduate Studies Institute (DAGSI) \$20,000	Skipper, Julie A. <i>Multimodal Imaging System for Ground-based IED Detection</i> Leonard Wood Institute \$174,542
Huang, George Shang, Joseph J.S. Menart, James A. <i>A Joint WSU/AFRL Center for Advanced Power and Energy Conversion Research (CAPEC)</i> DoD, Air Force, Air Force Research Laboratory (AFRL) \$10,000	Rigling, Brian D. <i>Center for Automatic Target Recognition--IDIQ Contract</i> Ohio State University \$9,226	Srinivasan, Raghavan <i>Conversion of Alpha Sigma Mu Membership Records</i> Alpha Sigma Mu \$2,000
Klingbeil, Nathan W. <i>DAGSI Cost Share: GOALI: A Modeling Base for Process Development of Electron Beam Manufacturing</i> Dayton Area Graduate Studies Institute (DAGSI) \$108,200	Rizki, Mateen M. <i>Identification of Biomarkers using Machine Learning Algorithms</i> Oak Ridge Institute for Science and Education (ORISE) \$42,000	Thirunarayan, Krishnaprasad <i>Metadata for Timelining Events</i> LexisNexis \$11,382
Mawasha, P. Ruby Yelamarthi, Kumar <i>An Elementary Outreach Program to Expose Students to STEM Disciplines</i> Ohio Space Grant Consortium \$1,000	Shaw, Arnab K. <i>Characterization of Hyperspectral Images for Automated Target Detection and Recognition</i> DoD, Air Force, Air Force Research Laboratory (AFRL) \$25,000	Wang, Bin Pei, Yong Wu, Zhiqiang <i>Wright Center for Sensor System Engineering (WCSSE)</i> Ohio Aerospace Institute \$100,000
Mukhopadhyay, Sharmila M. <i>Microstructural Evaluation of Coatings</i> Universal Energy Systems, Inc. (UES, Inc.) \$8,790	Sheth, Amit <i>Integrated Technology Resource for Biomedical Glycomics</i> University of Georgia \$23,000	Wang, Bin Pei, Yong Wu, Zhiqiang <i>CRI:IAD Instrumentation of Measurement and Test System for Open Spectrum Wireless Communication and Networking</i> NSF, Miscellaneous \$75,000
Narayanan, Sundaram <i>Operations Support Center (OSC) of Tec Edge</i> Wright Brothers Institute, Inc. (The) \$170,000	Shingledecker, Clark Vernooy, Jeffrey A. <i>A Web Broadcast Program to Provide Family-based Early Preparation for College Transition and Career Success</i> Johnson Scholarship Foundation \$54,285	Wolff, J. Mitch Mawasha, P. Ruby <i>Ohio Space Grant Consortium Scholarship/Fellowship Program</i> Ohio Space Grant Consortium \$21,000

Wu, Zhiqiang
Mawasha, P. Ruby
*The Software Defined Radio Based
Wireless Tracking and Transmission
System*
Ohio Space Grant Consortium
\$15,000

Yan, Hong
Menart, James A.
*High-Fidelity Thermal Bump and Heat
Release Analysis*
Universal Technology Corporation
\$46,895

Zhang, Xiaodong
*Data-Driven Approach to Lead Acid
Battery State-of-Health Monitoring*
General Motors Corporation
\$76,014

Zhang, Xinhui
*Inventory Control, Facility Layout,
Manufacturing Cell*
PECO II, Inc.
\$54,000

Zhang, Xinhui
*Transportation Consolidation
Optimization (Phase I)*
David J. Joseph Company (The)
\$7,500

College of Liberal Arts

Dewey, Dawne
*University of Dayton Roesch Library
Archives Public History Internship*
University of Dayton
\$6,094

Dustin, Jack L.
*Urban Projects - Urban Universities
Linkage*
Ohio Board of Regents
\$80,250

Jones, Patricia D.
Ohio Certified Public Manager
Ohio Department of Administrative
Services
\$38,000

Jones, Thomas Davidson
Wenning, Mary V.
*Homeowner Satisfaction and Mobility
Plans in Two Ohio Metropolitan Areas*
Ohio State University
\$28,482

Jones, Thomas Davidson
City of Dayton Public Survey
City of Dayton, Miscellaneous
\$23,408

Jones, Thomas Davidson
*Bridge Ministries Administrative
Assistance Survey Project*
Bridge Ministries Marriage Enrichment
Center
\$5,300

Jones, Thomas Davidson
*Kettering Parks and Recreation Senior
Assessment*
City of Kettering, Ohio
\$4,980

Jones, Thomas Davidson
City of Franklin Survey
City of Franklin, Ohio
\$4,258

Jones, Thomas Davidson
Beavercreek Township Fire Survey
City of Beavercreek, Ohio
\$3,974

Jones, Thomas Davidson
Street Fair Survey
Yellow Springs Men's Group
\$375

Layne, Jo Ellen
Brun, Carl F.
*Child Welfare Workforce Professional
Education Program*
Ohio Department of Job and Family
Services
\$123,250

College of Nursing and Health

Holdcraft, Carol A.
Pre-Licensure RN Nurse Education Grant
Ohio Board of Nursing
\$161,059

Martin, Patricia A.
*Miami Valley Hospital Operating
Agreement*
Miami Valley Hospital
\$315,000

College of Science and Mathematics

Arasu, Krishnasany T.
*Sequences and Signal Designs: A
Mathematical Investigation*
DoD, Air Force Office of Scientific
Research (AFOSR)
\$33,882

Arlan, Larry G.
Laundry Sample Analysis
Procter & Gamble Company
\$77,420

Barto, Eulondia Kathryn
Cipollini, Donald F.
*Allelopathy as an Invasive Mechanism for
the Invasive Plant *Alliaria petiolata*
(garlic mustard): Implications for
Restoration*
U.S. Environmental Protection Agency
\$15,302

Basista, Beth A. Tomlin, James H. <i>EXCEL Center of Excellence - Western Region</i> Ohio Board of Regents \$200,000	Fox, Jane Lee <i>Coupled Models of Planetary Thermospheres/Ionospheres</i> National Aeronautics and Space Administration \$90,000	Look, David C. <i>Donors and Acceptors in Epitaxially Grown ZnO</i> Battelle Laboratories \$29,110
Bennett, Kevin B. <i>Evaluation of the RAPTOR Interface</i> Alion Science and Technology (formerly Micro Analysis and Design, Inc.) \$11,056	Gilkey, Robert H. <i>Collaborative Research on Multisensory Interaction</i> DoD, Air Force, Air Force Research Laboratory (AFRL) \$30,220	Look, David C. <i>Hall Effect Measurements</i> More Than One Source of Support \$5,100
Burton, G. Allen <i>An Assessment of Copper Effects on Benthic Invertebrates in Freshwater Ecosystems</i> International Copper Association, Ltd. \$19,278	Gilpin, Roger K. <i>State of Ohio Sludge Program</i> More Than One Source of Support \$37,600	Lunsford, Suzanne K. <i>Electroanalytical Inquiry-Based Modular Sensor Development</i> Ohio State University \$16,000
Burton, G. Allen <i>DOC Project</i> International Copper Association, Ltd. \$2,700	Gilpin, Roger K. <i>Measurements of Contaminants in Commercial Herbicide</i> ATANOR \$10,970	Miller, Corey E. <i>HR Chally Center for the Study of Salespersonship: Statistical Support Fall 2007 - Spring 2008</i> HR Chally \$26,082
Cipollini, Donald F. <i>Allelopathic Chemicals as a Source of Novel Agricultural Chemicals</i> Ohio State University \$13,000	Higgins, Steven R. <i>Fluid Chemistry, Surface Chemistry, and Fracture Mechanics: An Investigation of the Connection at the Nanoscale</i> U.S. Department of Energy \$115,357	Shebilske, Wayne L. <i>Research and Technical Support for the Culture and Cognition Laboratory (CCL)</i> DoD, Air Force, Air Force Research Laboratory (AFRL) \$172,373
Clafin, Jr., Bruce B. <i>Characterization of Electronic Device Materials</i> University of Dayton \$295,877	Higgins, Steven R. <i>In-situ AFM Analysis of Hydrolytic Decomposition of Polymer Films</i> Tiburon Associates, Inc. \$920	Shebilske, Wayne L. <i>Revised Space Fortress and Training Older Adults</i> Columbia University \$2,000
Flach, John M. Bourbakis, Nikolaos G. Wheatly, Michele G. Fyffe, Robert E.W. <i>IGERT: An Interdisciplinary Initiative on Technology-Based Learning with Disability</i> NSF, Miscellaneous \$600,000	Kenyon, Lisa Orvik <i>A Learning Progression for Scientific Modeling</i> Northwestern University \$58,872	Steele-Johnson, Debra <i>EAGLE Accreditation Commission Internship Agreement</i> United Methodist Association \$5,217
	Klein, Helen A. <i>Rosetta Support--2007</i> Ball Aerospace \$100,000	Stireman, John <i>Collaborative Research: Caterpillars and Parasitoids in the Eastern Andes of Ecuador</i> NSF, Miscellaneous \$24,309

Kettering Center

Kennedy, Sandra D.
*Wright State University Kettering Center
 for Continuing Education's Labor
 Management Initiative*
 Ohio Department of Development
 \$88,000

Kennedy, Sandra D.
*Assessment and Whole System
 Implementation Exceptional Customer
 Service*
 City of Dayton, Miscellaneous
 \$17,000

Kennedy, Sandra D.
*Exceptional Customer Service - City of
 Dayton Waste and Street Services*
 City of Dayton, Miscellaneous
 \$4,800

Kennedy, Sandra D.
*Managing Multiple Projects and
 Objectives*
 Kodak Versamark, Inc. (formerly Scitex
 Digital Printing)
 \$1,875

Raj Soin College of Business

Bodey, Michael W.
*Small Business Development Center
 (SBDC)*
 Edison Materials Technology Center
 (EMTEC)
 \$3,000

Williams, Scott
Opportunity Analysis
 Development Projects, Inc.
 \$10,764

Williams, Scott
EMTEC Market Study
 Edison Materials Technology Center
 (EMTEC)
 \$3,400

School of Graduate Studies

Sanville, Thomas J.
OhioLINK
 Ohio Board of Regents
 \$1,846,956

Thomas, Jr., Joseph F.
*Innovation Incentive - Collaboration and
 Team Building in Doctoral Education*
 Ohio Board of Regents
 \$160,671

**School of Professional
Psychology**

Warfield, Janece
*Child Care Subsidy and Promoting
 Positive Relationships Program*
 U.S. Department of Education
 \$89,123

Warfield, Janece
*PECE-PACT: Parents Early Childhood
 Education/Positive Action Choices
 Training*
 Montgomery County ADAMH Services
 Board
 \$69,287

Winfrey, LaPearl L.
SOPP Student Practicum Training
 Montgomery County ADAMH Services
 Board
 \$62,000

Winfrey, LaPearl L.
*Mental Health and Deafness Residency
 Traineeship Program*
 Ohio Department of Mental Health
 \$24,500

Winfrey, LaPearl L.
Predoctoral Training
 Children's Medical Center (Dayton)
 \$20,000

Winfrey, LaPearl L.
Practicum Training
 South Community Mental Health Center
 \$20,000

Winfrey, LaPearl L.
Predoctoral Training
 Dettmer Hospital
 \$10,000

Winfrey, LaPearl L.
Predoctoral Training
 Twin Valley Psychiatric System
 \$10,000

Winfrey, LaPearl L.
Predoctoral Training
 Miami Valley Hospital
 \$10,000

Winfrey, LaPearl L.
*Rural Practice Initiative Residency
 Traineeship Program*
 Ohio Department of Mental Health
 \$7,350

Winfrey, LaPearl L.
Urban Public Health Initiative
 Ohio Department of Mental Health
 \$7,350

Yung, Betty
*Evaluation of the Springfield Students
 and Families Engaged (SSAFE) Program*
 Springfield City School District
 \$179,698

Yung, Betty
*Research and Evaluation Enhancement
 Program*
 Ohio Commission on Minority Health
 \$36,002

Student Affairs

Cooper, Mary Maureen
Hill, Sara Jane
Student-Athlete Opportunity Fund (SAOF)
Horizon League
\$34,893

Universitywide

Boyd, Willie A.
Academic Competitiveness Grant
U.S. Department of Education
\$143,052

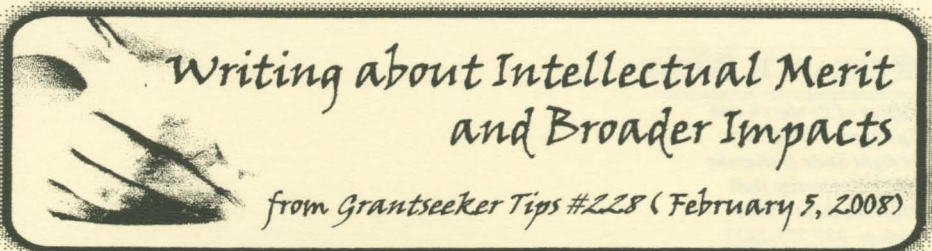
Boyd, Willie A.
National SMART Grant Program
U.S. Department of Education
\$48,872

Boyd, Willie A.
PELL Grant Program
U.S. Department of Education
\$2,289

Boyd, Willie A.
Academic Competitiveness Grant
U.S. Department of Education
\$375

Duncan, Chris
Swift, Shawn S.
Uniform Commutation Allowance
DoD, Air Force, AFOTC
\$68,040

McMillan, Jacqueline
Ohio Asian American Health Coalition
Ohio Commission on Minority Health
\$38,435



Often, proposal guidelines ask you to write about the intellectual merit of your proposal. The National Science Foundation (NSF) and the National Institutes of Health (NIH) guidelines, for example, request this information.

“**Intellectual Merit**” is a broad goal, an abstraction requiring further analysis. In essence, NSF and NIH are asking you to describe your meaning of this phrase. What are the specific outcomes that would cause reviewers to agree your proposal has intellectual merit? You can use a thermometer to measure temperature; what are the specific actions that will occur so you can substantiate your claim that your proposal has intellectual merit?

While we can't write the intellectual merit section of your proposal, we can raise a few questions that will help you get started.

- ❖ Will your proposal advance knowledge in one or more fields? If so, what is the specific new knowledge and which fields will benefit most?
- ❖ Will your proposal advance technology? Specifically, what are the technological improvements?
- ❖ Have you assembled a distinguished team of experts to guide your project progress? What special credibility do they bring to the project?
- ❖ Will the project result in new collaborations, equipment, laboratories, or services?
- ❖ What will exist at project end that didn't exist as the project beginning?
- ❖ Have you built in rigorous internal and external evaluation procedures? Can you ensure that appropriate evidence will be available to document project progress and outcomes?

In answering these five questions, you will be citing specific, observable behaviors that taken collectively represent your operational definition of intellectual merit.

In addition to “intellectual merit,” some grant applications require a section addressing the “**Broader Impacts**” of your proposal. Again, NSF and NIH are two examples.

Your task as a proposal writer is to operationalize this global term. How do you define it? If you were to take a stack of proposals and sort them into two piles, one pile that had broad impacts and another that lacked them, how would you decide which proposal goes in which pile? Your reviewers are looking for concrete evidence that your proposal can produce a ripple effect.

Start writing this proposal section by addressing the following questions:

- ❖ Will your project produce a quantum impact on the way something is currently done, e.g., a new procedure or service delivery? Grants produce change and grantmakers like to see big change.
- ❖ Will your project have significant implications for existing or proposed education and training programs? When change occurs, we often must teach others about the why, what, and how of change.
- ❖ Will you be implementing a strategic dissemination plan involving multiple strategies targeting various stakeholders at key project milestones? Let your grantmakers know they will be getting a “big bang for the buck.”
- ❖ Will your project reach out to underrepresented groups, e.g., gender, ethnicity, disability, geographic? Many grantmakers are concerned about diversity issues and this is your opportunity to ensure diversity is directly addressed in your proposal.

If you are really serious about writing a persuasive “broader impacts” section in your proposal, you will include methods to plot your progress on a chart and indicate zones of reason for probable change.

RESEARCH NEWS

Office of Research and
Sponsored Programs
Wright State University
201J University Hall
Dayton, Ohio 45435
Voice: 937 775-2425
FAX: 937 775-3781
email: rsp@wright.edu
<http://www.wright.edu/rsp/>

STAFF Information

Office of the Vice President for Research

Vice President for Research

Jack A. Bantle, Ph.D jack.bantle@wright.edu

Administrative Support Coordinator Research and Graduate Programs

Diane Hamilton diane.hamilton@wright.edu

Office of Research and Sponsored Programs

Assistant Vice President for Research

William K. Sellers, Ph.D william.sellers@wright.edu

Director, Pre Award

Ellen Reinsch Friese ellen.friese@wright.edu

Director, Post Award

Glen Jones glen.jones@wright.edu

Director, Technology Transfer

Concetta Dudley, J.D. connie.dudley@wright.edu

Associate Directors

Jackie A. Frederick jackie.frederick@wright.edu

Yun Wu yun.wu@wright.edu

Assistant Directors

Marianne Shreck marianne.shreck@wright.edu

Naomi Halverson naomi.halverson@wright.edu

Senior Grants Accountant

Danielle Booth danielle.booth@wright.edu

Grants Accountants

Gene Florkey gene.florkey@wright.edu

F. John Wedig john.wedig@wright.edu

Elaine Davis elaine.davis@wright.edu

Administrative Coordinator (IRB)

Robyn Wilks, CIM robyn.wilks@wright.edu

Programs Facilitators

Cheryl Nickoson cheryl.nickoson@wright.edu

Christine Piekkola christine.piekkola@wright.edu

Jan Power rsp@wright.edu

Records Technician

Aja Ash aja.ash@wright.edu

Undergraduate Assistants

Kelly McGhee

Rachael Brown

Tiffany Carson

Mary Lou Moyer

Rachel Osborne