The image shows a photograph of a university campus. In the foreground, there is a paved walkway with a brick border. Behind the walkway is a landscaped area with various plants and flowers. In the center of this area are two tall, red, rectangular structures. The one on the right is a clock tower with a white clock face. In the background, there are large green trees and a brick building. The sky is blue. In the top right corner, the text 'RU RADFORD UNIVERSITY' is written in white, serif font.

RU
RADFORD
UNIVERSITY

FY2013 Annual Report
*Office of Sponsored Programs &
Grants Management*

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OUR SERVICES

Take Advantage of the different services our office can provide during the grant process....

- Assistance in Finding Grant Opportunities
- Setting up and training for COS Pivot
- Review Agency Guidelines
- Budget Preparation for Grants
- Proofreading Grant Proposals for grammar and format
- Research Design Assistance
- Facilitate Multi-disciplinary teams
- Preparing application packages
- Help in obtaining internal approvals
- Submitting application to Sponsors
- Various Training Sessions & Workshops
- Negotiating Awards
- Establishing funding on the Institution's general ledger system.

LETTER FROM DIRECTOR

Dear Colleagues,

It is with great pleasure to present the Office of Sponsored Programs and Grants Management's annual report for Fiscal Year 2013. Once again the RU faculty have brought in more than \$5 million in external awards, marking the twelfth consecutive year of this accomplishment. Although sponsored activities for FY '13 represented a modest decline over last year, most of which was the direct result of an ailing economy that offered limited proposal requests from external sponsors, the faculty and administrators at RU still remained motivated in the pursuit of external funding. Leveraging collaborations with other institutions increased significantly this past year. Some of the collaborations came from long-standing relationships with other colleagues, but new partnerships were formed as well. We were pleased to see a few of our newer collaborations received external support, particularly from the federal agencies. Despite the sluggish economy, and repeated threats of government shut-down and sequestration, the efforts of the faculty and staff in strategizing to seek different sources of funding was at an all-time high. Our office trained over 65 faculty and their students on Pivot, our comprehensive database for finding funding opportunities. I fully expect these new synergies will propel us forward in the new fiscal year by creating competitive proposals.

Congratulations to all our awardees, as well as those who have worked extremely hard submitting proposals. We look forward to deploying several new initiatives in the New Year which will aim at providing efficient services and continued support for the RU faculty and staff.

Respectfully Submitted,

Thomas W. Cruise, CRA

Director of Sponsored Programs and Grants Management

MISSION

The Office of Sponsored Programs and Grants Management (SPGM) supports all faculty and staff in the pursuit of external funding that benefits the university and its students.

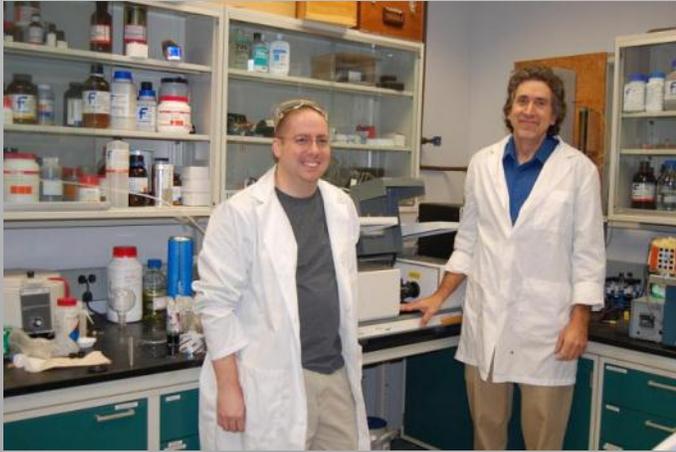
SPGM coordinates the solicitation and administration of grants, contracts, and cooperative agreements on behalf of the university. Our responsibilities include assisting faculty and staff in identifying potential funding opportunities; providing faculty/staff with development services through various forms of outreach; negotiating awards; overall post-award administration of grants and contracts awarded to the university, as well as suggestions of policies and procedures relating to such efforts.

Grants and contracts handled by SPGM are those funds received by the university for a specific purpose or program, under the direction from a member of the faculty community. Funding is usually geared towards research, public service, or instructional activities. However, other forms of funding can include curriculum development, faculty development, equipment and/or facility renovation, student fellowships, conferences and performances.



**Sponsored Programs and Grants Management
Walker 201**

Highlights of RU Research



In his latest EPA funded project, Dr. Webster is working with eight RU undergraduates to develop novel water purification technologies. The project focuses on the development of an inexpensive, multi-functional adsorbent material that will improve existing sand filtration technology to better remove a wide range of water contaminants, including arsenic, other heavy metals, and organic contaminants. The adsorbent is based on his recent discovery of a novel synthetic humic acid-like carbon material that is economical, easy to prepare, and based on renewable starting materials. The overarching goal of this project is to mimic the humic acid found in nature, a natural polyelectrolyte that easily binds to minerals and serves as an excellent chelator of metals in the environment.

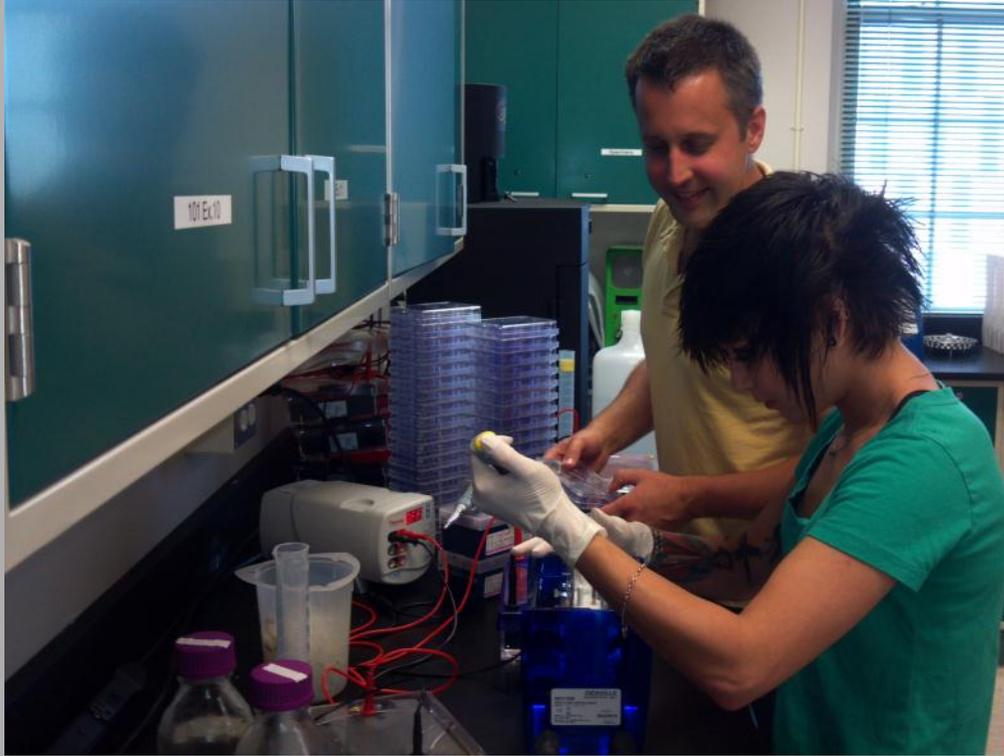




Dr. Blanks is exploring school and community collaborations to increase access for students with disabilities. One project, a collaboration with the RU Teaching and Technical Assistance Center (TTAC), focuses on rural middle schools and experiential learning programs such as Junior Achievement and 4-H. Her goal is to identify factors that promote access to experiential learning programs for students with disabilities and to explore ways to increase interagency collaboration. In her second project, Dr. Blanks is collaborating with Dr. Jennifer Jones (Literacy Education) and Patricia Winter (Music Therapy) to investigate and develop sensitization and professional development protocols for including students with disabilities in schools and communities in rural Malawi.

Patricia Winter (Music) and Corey Cassidy (C.O.S.D) investigate the impact of music therapy approaches on the speech and language development of preschool aged children enrolled in the Radford University Preschool Language Lab. This collaboration was initially funded through a C.V.P.A mini-grant and has since been funded with a University Wide Research Award. This project has provided opportunities for music therapy students to collaborate with students from the speech and language pathology program in designing and implementing music therapy and speech/language approaches to support language development in children with a variety of diagnoses. Preliminary findings from the project were presented at the American Music Therapy Association's National Conference as well as the American Speech Language Hearing Association's National Conference.





Dengue Virus is responsible for over 50 million cases of dengue fever and approximately 500,000 cases of dengue hemorrhagic fever annually. At this point, the only invention is mosquito control. With a grant from the Jeffress Memorial Trust, Dr. Justin Anderson, in the Biology Department, along with his undergraduate research students are investigating the effects of introducing pokeweed antiviral protein (PAP), that kills viruses, into mosquito or other insect cells. The goal is to determine whether the presence of this PAP can inhibit infection of the mosquito-borne dengue viruses.

Dr. Virginia Burggraf at the School of Nursing received a grant for Advanced Education Nursing Traineeship from U.S. Department of Health and Human Services. Due to the shortage of nurses, this grant helps to educate a variety of nursing specialty areas which includes, but not limited to, nurse practitioners, nurse anesthetists, nurse midwives, clinical nurse specialists, and public health nurses. Overall, the traineeship funds will provide support to 10 full-time and 20 part-time students in the D.N.P. Nursing program. Once the recipients complete the program, there will be an increase in nurses who provide medical care to the underserved populations in rural Southwest Virginia.



Each summer selected high school students come to Radford University for the Governor's School. This program focuses on the Humanities and Visual and Performing Arts. The students experience college life and begin to foster relationships with other students who have similar interests. The program goals are to establish commitment to scholarship, open minds, collaboration, and help stimulate the creative process.



Sponsored



Activities



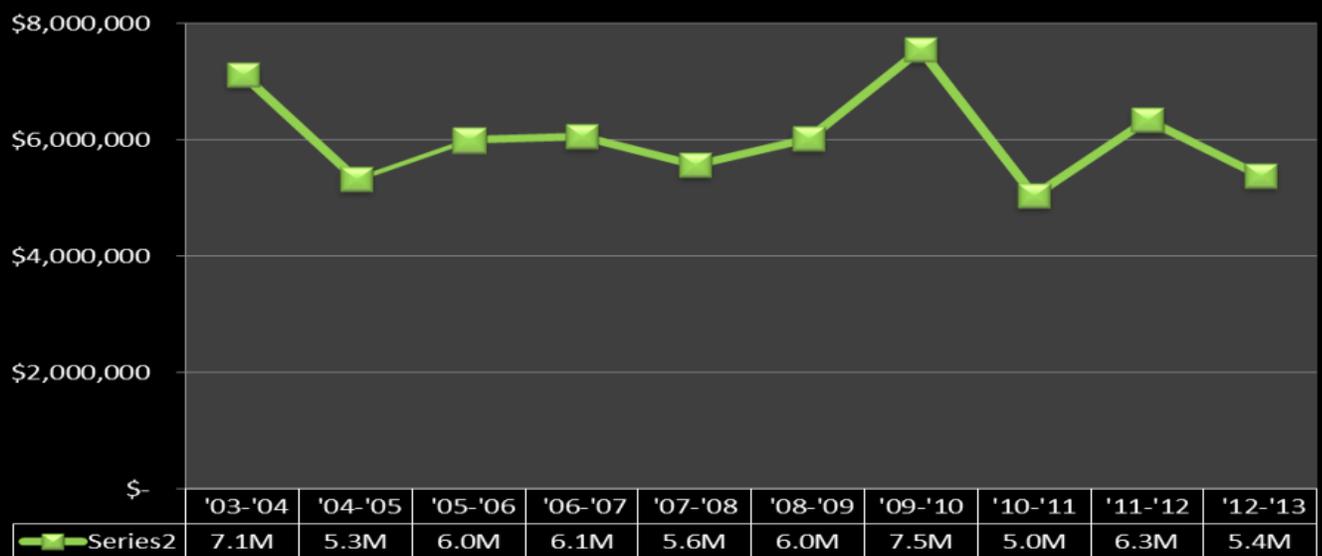
TOTAL AWARDS BY YEAR

Awards Received for FY 2013

The faculty, staff, and students of Radford University have again brought in \$5 million or more in grants, contracts, and cooperative agreements for the twelfth consecutive year. During Fiscal Year 13, thirty-nine (39) awards were received for a total of \$5,375,491 in external funding.

Our success may be seen in the following graph.

**Amount Awarded in Sponsored Agreements
Fiscal Years 2003-2013**

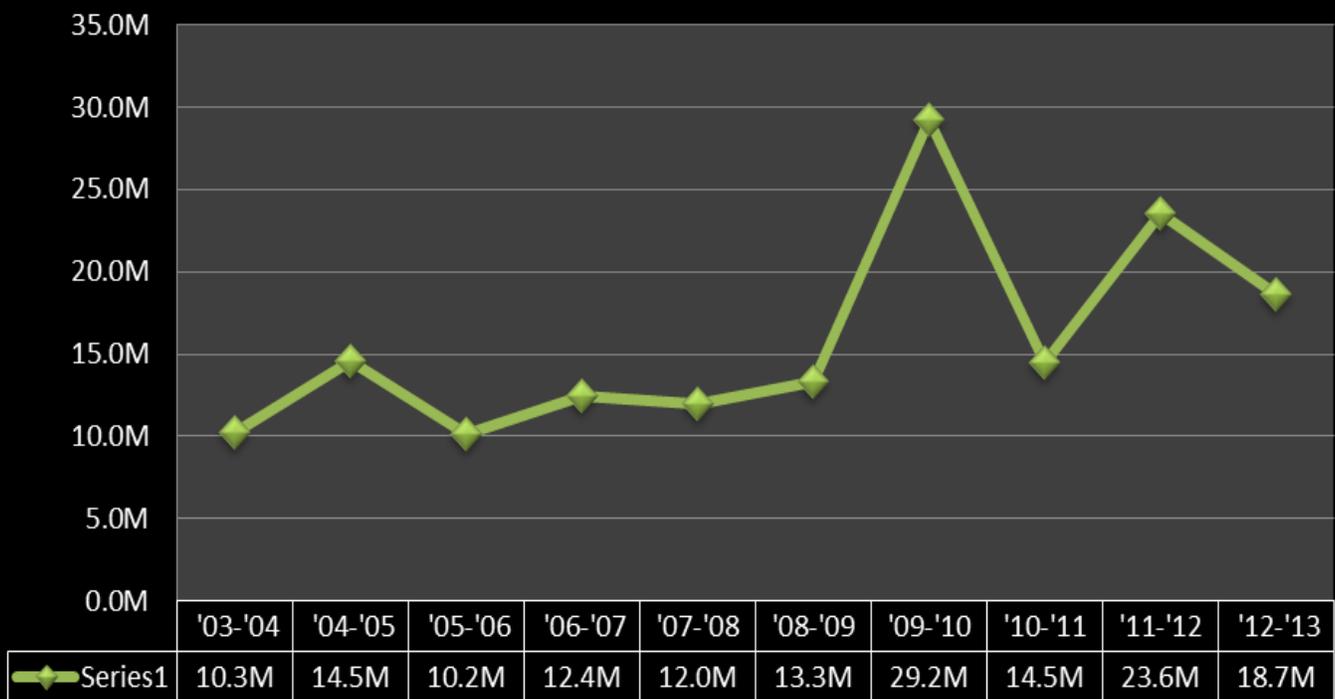


TOTAL SUBMISSIONS BY YEAR

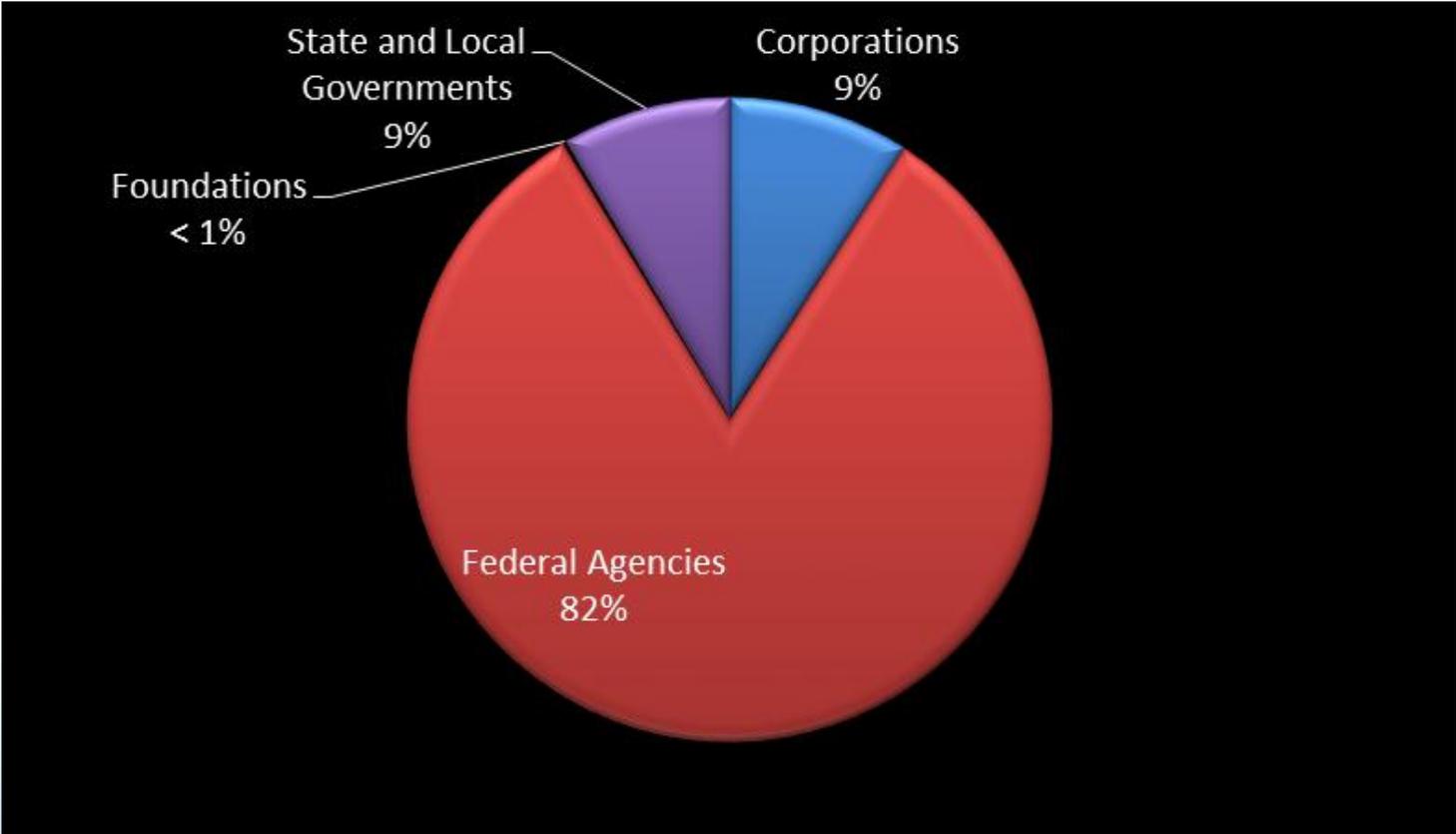
Proposal Submissions for FY 2013

We are proud of our faculty, staff and students who submitted the third highest requested amount in proposals submissions within the past ten years.

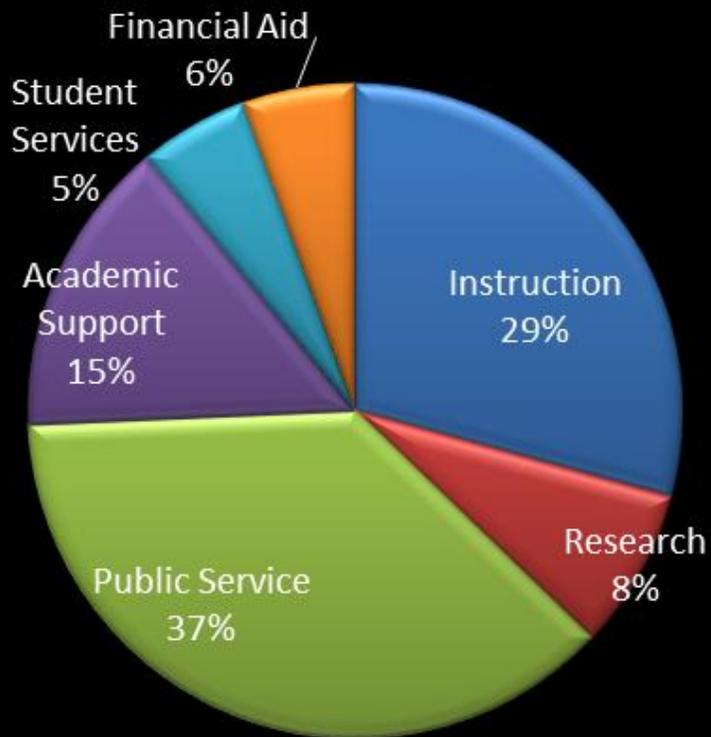
Amount Requested for Proposal Submission Fiscal Years 2003-2013



AWARDS BY FUNDING SOURCE

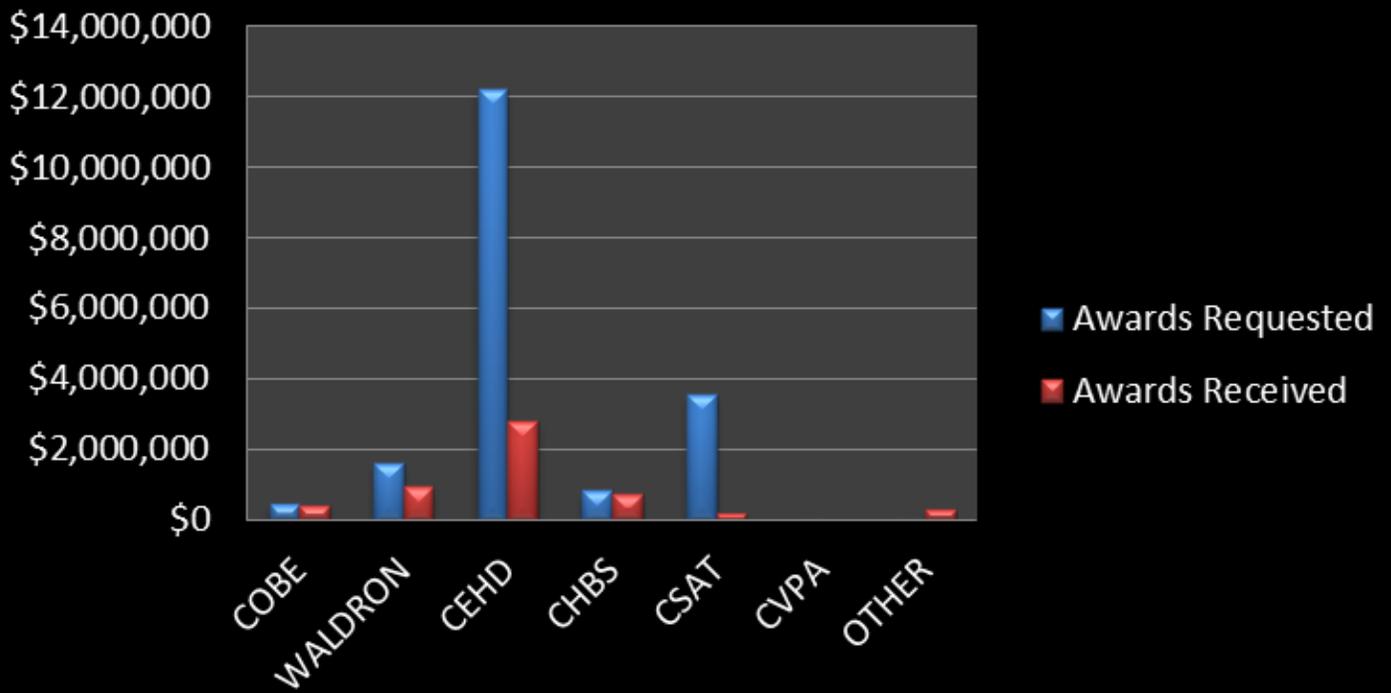


AWARDS BY SOURCE



FY2013 SUBMISSIONS &

FY2013 Grant Activity by Academic Unit

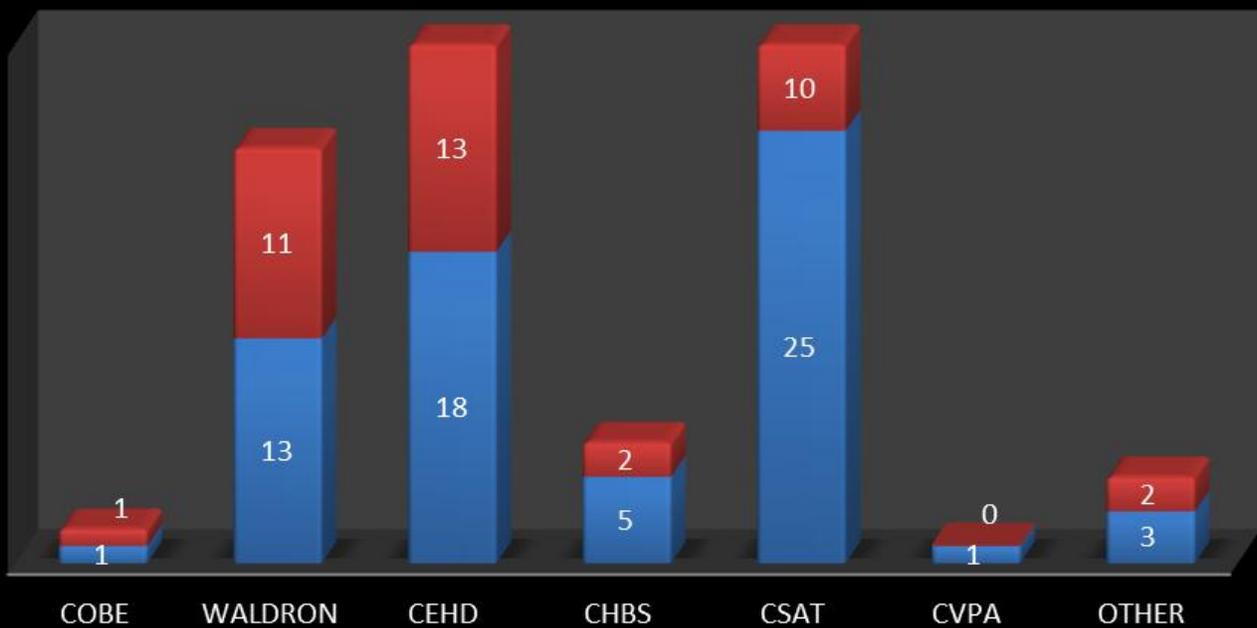


Department	Amount Requested	Amount Received
COBE	\$442,933	\$407,498
WALDRON	\$1,624,075	\$938,088
CEHD	\$12,202,848	\$2,803,604
CHBS	\$831,504	\$716,504
CSAT	\$3,525,964	\$209,919
CVPA	\$4,521	\$0
OTHER	\$20,324	\$299,878

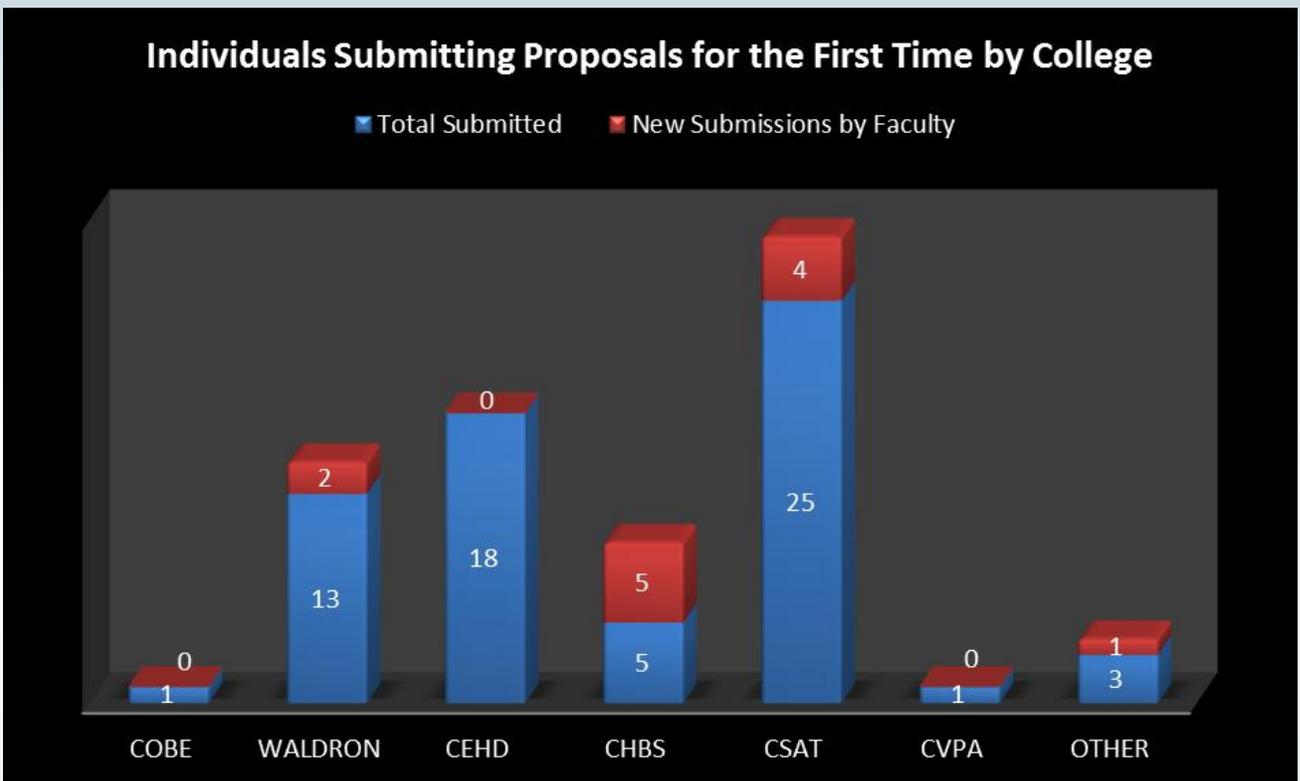
AWARDS BY ACADEMIC UNIT

FY2013 Submissions/Awards by Academic Unit

■ Proposal Submitted ■ Awards Received



SUBMISSIONS AND AWARDS



Waldron College of Health and Human Services

- Dr. Sarah Gilbert
- Ms. Linda Ely

College of Humanities and Behavioral Sciences

- Dr. Glen Martin
- Dr. Moira Baker
- Dr. Joe Jones
- Dr. Sharon Roger-Hepburn
- Dr. Susan Kwilecki

College of Science and Technology

- Dr. Timothy Fuhrer
- Dr. Wei Chi Yang
- Dr. Anthony Dove
- Dr. R. Stockton Maxwell

Other Departments

- Ms. Susan Trageser

BY FIRST TIME FACULTY

FY2013 Submissions/Awards by Academic Unit



Waldron College of Health and Human Services

- Dr. Sarah Gilbert
- Dr. Linda Ely

College of Humanities and Behavioral Sciences

- Dr. Glen Martin
- Dr. Moria Baker

College of Science and Technology

- Dr. R. Stockton Maxwell

Other Departments

- Ms. Susan Trageser

OUTREACH

The Office of Sponsored Programs and Grants Management are committed to providing excellent outreach opportunities for our faculty, staff, students and community. We know that navigating and learning about the world of grants can be challenging, so our office has tried to provide the best possible outreach opportunities in various areas to the RU community.



In March, we hosted a well-attended research luncheon on a relevant topic throughout campus. At the luncheon, Michael J. Martin, President of TechTransfer Associates, Inc., gave an informative and engaging presentation about pertinent issues in the realm of intellectual property. The seminar was well received by faculty and staff.

Based on several inquiries from our faculty about crowdfunding, a workshop was organized with a guest speaker, Dr. Alton Dooley, Jr. from the Virginia Museum of Natural History, who shared his successful crowdfunding project and insight about navigating the process.



In April, our office was also invited to participate in a forum on University-Community Partnerships entitled *Building Productive Partnerships on Both Sides of The Fence* with hopes of helping faculty to forge connections within the community to foster research activities for K-12.

Below is a comprehensive list of outreach activities provided by our office in FY2013:

- Our Turn sessions for the Fall, Spring and Summer sessions on Pre-Award and Post-Award topics.
- Sent five faculty to the National Science Foundation's one-day workshop.
- Spring Research Luncheon in March, 2013.
- Crowdfunding Workshop in March, 2013.
- Participating in the *Building Productive Partnerships on Both Sides of the Fence* in April 2013.
- Trained 65 faculty/students on Pivot, a database for finding funding opportunities.
- Grant 101 training session for
 - ◆ Occupational Therapy Students
 - ◆ Advanced Technical Writing Students
- Specialized COS training session for
 - ◆ Psy.D. Students
 - ◆ Nursing Students
 - ◆ One-on-One faculty training
- *RU Discovery* newsletter with ten issues.
- Dissemination of the *Research Development & Grant Writing Newsletter*.

MILLION DOLLAR CIRCLE

The Million Dollar Circle program recognizes members of the RU faculty who receive a cumulative total of \$1 million dollars or more in external grants or contracts. Members of the Million Dollar Circle are formally recognized for their accomplishment at the beginning of the academic year following the fiscal year in which they become eligible for the award.



During this past fiscal year, the Office of Sponsored Programs and Grants Management was pleased to announce the following members of the RU community who achieved this honor:

Ms. Virginia Bussey
School of Teacher Education and Leadership
\$4,389,006

Dr. Katherine Hoover
School of Teacher Education and Leadership
\$3,417,941

Ms. Mac McArthur-Fox
School of Teacher Education and Leadership
\$3,578,439

Ms. Kathleen Pierson
School of Teacher Education and Leadership
\$3,065,473

Dr. Virginia Burggraf
School of Nursing
\$1,534,179

Dr. Sandra Moore
School of Teacher Education and Leadership
\$1,153,353

Dr. Elise Fullmer
School of Social Work
\$1,138,534

INTERNAL FUNDING

INTERNAL GRANTS TO ASSIST IN SECURING EXTERNAL AWARDS

Seed Grants are offered to enable members of the faculty and staff to secure competitive external awards. A typical Seed Grant provides funding to conduct a preliminary study that leads to a major research grant, or a grant with a research component. As a condition on receiving a Seed Grant, proposed sponsors must allow for indirect cost recovery in the budget.

Deadlines for proposals are rolling: (September 15—April 15)



Traveling to Meet with Potential Sponsors are small travel stipends given to faculty who are interested in meeting with Program Managers to discuss projects and funding possibilities.

Applicants for *Traveling to Potential Sponsors* programs may submit at any time.

Awards are subject to the availability of funds.

SEED GRANT AWARDS

Dr. Brooke Blanks – STEL

Bridge to the Future: An Exploration of Experiential Education as a Model Transition Program for Middle School Students with Disabilities

\$18,536

Dr. Christopher Monceaux - Chemistry

Design, Synthesis, and Screening of Cyclic Sulfonimidamides for the Potential Use as Antiepileptic Drugs

\$20,000

Dr. Grigory Ioffe Geospatial Science

The Republic of Belarus: Geopolitical Leanings and the Phenomenon of Lukashenka

\$19,882.50

Elizabeth McClellan - Geology

Provenance of Rhyolite Clasts in the Lower Mount Rogers Formation, Southwestern Virginia.

\$19,360

Dr. Emmanuel B. John – Physical Therapy

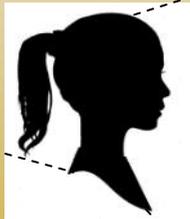
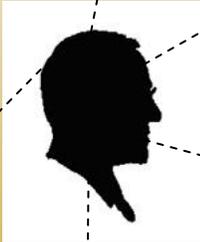
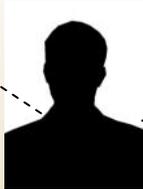
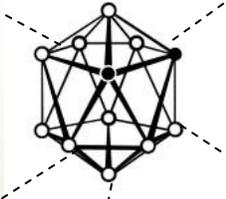
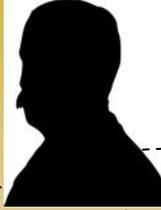
Dr. Julia Castleberry – Physical Therapy

Dr. Thomas Pierce - Psychology

Impact of Discharge Destination and Socioeconomic factors on Functional Recovery status and Quality of Life of Chronic Stroke Survivors in the Roanoke Valley and New River Valley Areas: A 6-month's Longitudinal Pilot Study.

\$20,000

UNIVERSITY RESEARCH



COLLEGE OF GRADUATE AND PROFESSIONAL STUDIES' UNIVERSITY RESEARCH AWARDS

The Dean of the College of Graduate and Professional Studies sponsored an internal grant competition this fiscal year called the *University Wide Research Awards*. The purpose of a University Wide Research Award is to provide support to two or more faculty engaged in a jointly authored, multi-disciplinary research project. Multi-disciplinary implies that the faculty members reside in different academic departments. The expectation is that funded projects result in products (articles, books, performances, exhibitions, grant applications) that will eventually be peer reviewed/juried.

University Research Awards

Dr. Brooke Blanks – STEL

Dr. Jennifer Jones – STEL

Dr. Patricia Winter - Music

Project Zinthu Za Za Aliyense (Something for Everyone): Building Capacity for Inclusive Education for Children with Disabilities in Rural Malawi

\$20,000

Dr. Isaac Van Patten – Criminal Justice

Dr. Ann Elliott – Psychology

Dr. Jeffery Aspelmeier – Psychology

Dr. Thomas Pierce - Psychology

Supplemental Award: A pilot study of incidence and correlates of serious mental illness in jail-incarcerated women.

\$3,082

Dr. Corey Herd Cassidy – Communication Science and Disorders

Dr. Patricia Winter - Music

Speech/Language Therapy and

Music Therapy: A Collaborative

Approach to Intervention for Young

Children with Communication Disorders

\$10,000

Dr. Jeremy Wojdak – Biology

Dr. Robert Sheehy - Biology

Assessment of parasite disease transmission across the landscape using molecular tools

\$19,866

PROPOSAL SUBMISSIONS

Altieri, Elizabeth, STEL. Co-PI: **Kenna Colley**, STEL. George Mason University flow through from VDOE and ED. \$59,952. *Severe Disabilities Grant*. This grant is for funding to teach one to two courses as part of the Virginia Department of Education Statewide Training Consortium.

Altieri, Elizabeth, STEL. Co-PI: **Kenna Colley**, STEL. George Mason University flow through from VDOE and ED. \$28,996. *Visual Impairment Grant 2012-2013*. This proposal is to pay for partial tuition support for students, and to teach a course as part of the Virginia Department of Education Statewide Training Consortium as a subaward on George Mason University's grant.

Altieri, Elizabeth, STEL. George Mason University flow through from ED. *Virginia Consortium for Teacher Preparation in Severe Disabilities and Autism*. \$220,000. The purpose of this proposal is to prepare 40 fully trained and qualified pre-service special education teachers with endorsement in Special Education, Adapted Curriculum K-12.

Anderson, Justin, Biology. National Institutes of Health. \$439,245. *Genetic Determinants of Prohibitin Protein Interactions with Dengue Viruses*. The goal of this project is to characterize whether prohibitin proteins determine if a mosquito species is capable of becoming infected with dengue viruses.

Anderson, Justin, Biology. National Institutes of Health. \$125,214. *Building a Pipeline to Increase Diversity in Health-related Research in Virginia*. The aim of this planning grant proposal is to develop a series of relationships among institutions located in southwest Virginia, with the express goal of increasing the number of students from underrepresented minorities who successfully complete a doctoral program and enter research careers in biomedical, behavioral, or other health-related fields.

Barris, Roann, Art. Virginia Commission for the Arts. \$4,521. *Catalogue Raisonne for the RU Art Museum*. This proposal is for students in the Art Department to research photographic documentation for the preparation of a catalogue raisonne of the completed collection of the RU Art Museum.

Boyd, Clifford, Anthropological Sciences. Chesterfield County. \$6,663. *Skeletal Analysis of Individuals from Unmarked Cemetery at Old Cloverleaf Mall*. A project for the skeletal analysis of six unidentified individuals from an unmarked 19th Century cemetery discovered beneath a parking lot at the former location of the Old Cloverleaf Mall in Richmond, Virginia.

Boyd, Donna, Anthropological Sciences. Co-PI: **Cliff Boyd**, Anthropological Sciences. U.S. Department of Justice. \$349,478. *Creation of a National Archival Imaging Database for Evaluation of Healing Rates And Estimation of Time Since Injury of Pediatric Antemortem Skeletal Fractures in Child Abuse Investigations*. The ultimate goal of this project is the creation of an online (web-based) archival database of antemortem pediatric fractures, with a focus on illustrating and delineating healing rates to understand the timing of antemortem events.

Burggraf, Virginia, Nursing. Virginia Center for Aging flow through Virginia Commonwealth University. \$24,763. *Adult-Gerontology Primary Care Nurse Practitioner*. A proposal to develop an adult-gerontology nurse practitioner concentration in the Doctor of Nursing Practice program.

Carter, Kimberly, Nursing. Carilion Health System. \$86,520. *BS & MS Degree in Nursing 12-13*. A proposal to support the provision of upper-division and graduate nursing courses, including those at the Roanoke Higher Education Center and in online and other alternative educational formats, as part of the Bachelor of Science Degree in Nursing and Graduate Programs in Nursing, which are offered by the University.

Carter, Kimberly, Nursing. Lewis-Gale Health System of HCA VA. \$1,105,188. *Advancing Evidence-Based Practice and Research at Lewis-Gale Health System*. A proposal for a collaborative partnership to increase the BSN workforce and advance the current workforce in supporting Magnet-level evidence based practice and research.

Carter, Kimberly, Nursing. Lewis-Gale Health System of HCA VA. \$7,895. *Advancing Evidence-Based Practice and Research at Lewis Gale Health System*. The goal of this proposal is to achieve optimal patient outcomes by investigating clinical questions, adapting practice standards in relation to relevant research reports, and evaluating practice and administrative outcomes while protecting the rights and safety of research subjects.

Carter, Kimberly, Nursing. Virginia Polytechnic Institute and State University flow through from DHHS/NIOSH. \$3,633. *Effects of Night Shift on Occupational Accidents Among Nurses*. The purpose of this proposal is to work on an interdisciplinary study regarding the effects of night shift on occupational accidents among nurses.

Cassidy, Corey, Communication Sciences and Disorders. \$1,000. Community Foundation of the New River Valley. *Project Sprout*. This proposal is for a new education prevention and awareness program for young children (birth-five years) and their parents who are experiencing homelessness in the southwest region of Virginia.

Colley, Kenna, STEL. Virginia Department of Education flow through from ED. \$1,011,488. *Training and Technical Assistance Center (TTAC)*. The Virginia Department of Education's state-wide projects with TTACs provide professional development and support designed to assist schools in addressing accountability and improvement goals for students with disabilities.

Corroto, Carla, Sociology. Co-PI: **Elizabeth Lyman**, Sociology. Spencer Foundation. \$40,000. *Administrating Service-Learning in the New Economy: Faculty Assessment and Satisfaction*. This proposal is to investigate (1) how faculty who contribute service pedagogies fit into public institutions of higher education today as multiple forces urge academia to respond to the "new economy"; (2) will determine which faculty – by rank, discipline, and demographic category – are implementing service-learning at public colleges and universities; and (3) will measure the level of job satisfaction relative to faculty who are not including service pedagogies.

Ely, Linda, Nursing. Chang-Gung University of Science & Technology. \$5,959. *Partnership with Chang-Gung University to Study the Mental Health Care System in S.W. Virginia*. This proposal is to fund a cross-cultural exchange between American Students and Taiwanese students in the study of mental health care systems and the role of psychiatric nurse.

Ely, Linda, Nursing. Chang-Gung University of Science & Technology. \$2,160. *Partnership with Chang-Gung University to Study the Mental Health Care System in S.W. Virginia*. This proposal is for incremental funding to cover transportation costs for the cross-cultural exchange between American Students and Taiwanese students in the study of mental health care systems and the role of psychiatric nurses.

Ely, Linda, School of Nursing. Virginia Polytechnic Institute and State University flow through DHHS/SAMHSA. \$142,703. *SBIRT Training for Health Professionals in Rural Southwest Virginia*. This proposal is for an inter-professional partnership to increase the numbers of health care providers knowledgeable in evidence-based screening, brief intervention, and referral to appropriate treatment for a substance abuse disorder.

Foy, Andrew, Geospatial Science. U.S. Department of Agriculture. \$7,000. *Providing Crop Insurance Education & Access & Marketing Strategies to New & Beginning Farmers & Ranchers, Limited Resource Producers & Speciality Crop Producers in Virginia*. The GIS Center would be very interested in providing ASD with training on the best way to utilize this tool, store data, and further develop the application. In addition to training, the GIS center will explore ways to improve communications with rural farmers. One area of focus will be using mobile devices in rural Appalachian areas to enhance communications because many of the areas lack infrastructure, such as telephone landlines or cable/internet.

Francl, Karen, Biology. Radford Army Ammunition Plant. \$10,977. *Biological Surveys of Radford Army Ammunition Plant*. This proposal is to identify species and locations of amphibians, reptiles, birds and small mammals at Radford Army Ammunition Plant and provide a report with species listed and sample point locations with GPS coordinates.

Francl, Karen, Biology. Virginia Department of Game and Inland Fisheries. \$25,000. *White Nose Surveillance and Monitoring*. A proposal to assess the status of two bat species currently being considered for "Endangered Species" status through the Endangered Species Act.

Fullmer, Elise, School of Social Work. Virginia Department of Social Services flow through from DHHS. \$198,842. *Community Resource Adoptive Foster Family Training (CRAFFT) 2013-2014*. This proposal is for another year of funding to continue to have a Community Resource Adoptive Foster Family Training to help families create and sustain a family/community environment that strengthens family relationships.

Gilbert, Faye, Dean of the College of Economics and Business. George Mason University flow through from SBDC and SBA. \$442,933. *2013 Small Business Development Center*. A proposal for grant funds to manage the Small Business Development Center programs in Southwest Virginia.

Hilden, Katherine, STEL. Co-PI: **Jennifer Jones**, STEL. SCHEV flow through from ED. \$95,521. *Integration Station: Bridging best practices in literacy and science*. This proposal is designed to creatively integrate science and literacy instruction with the use of non-fiction texts to enhance students' learning in science, reading and writing.

Hoover, Kathryn, STEL. Co-PI: **Kathleen Pierson**, STEL. Virginia Department of Behavioral Health and Developmental Services flow through from ED. \$196,993. *ITC NRV 2013-2014-State Funds*. The program's purpose is to provide early intervention services to eligible children birth to 2 years of age or their 3rd birthday.

Hoover, Kathryn, STEL. Co-PI: **Kathleen Pierson**, STEL. Virginia Department of Behavioral Health and Developmental Services flow through from ED. \$116,158. *ITC NRV 2013-2014-Federal Funds*. The program's purpose is to provide early intervention services to eligible children birth to 2 years of age or their 3rd birthday.

Hoover, Kathryn, STEL. Co-PI: **Kathleen Pierson**, STEL. Virginia Department of Behavioral Health and Developmental Services. \$20,029. *ITC NRV 2012-2013-State Funds*. The program's purpose is to provide early intervention services to eligible children birth to 2 years of age or their 3rd birthday.

Hoover, Kathryn, STEL. Virginia Department of Education flow through ED. \$75,000. *Virginia Consortium for Teacher Preparation in Early Childhood Special Education*. The purpose of this proposal is to address the critical shortage of Virginia licensed teachers who carry endorsement in Early Childhood Special Education.

Jacobsen, Laura, STEL. Co-PI: **Agida Manizade**, Mathematics. National Science Foundation. \$7,995,616. *STEM Leadership in Secondary Mathematics*. The project is pursuing a Targeted Partnership Award for an Implementation grant in the focal area of current issues related to STEM content. It will develop a cadre of 100 teacher leaders prepared to implement problem-based learning and innovative simulation-based engineering and STEM applications in the secondary mathematics classroom.

Jacobsen, Laura, STEL. Co-PI: **Agida Manizade**, Mathematics. Virginia Department of Education. \$250,000. *Secondary Mathematics Professional Development Center*. This project's long-term effort includes preparation for selected secondary mathematics teachers to serve as Lead Teachers guiding innovation in mathematics content and pedagogy while increasing students' mathematics achievement and interest in STEM fields.

Jones, Franklin, Physics. Co-PI: **Walter Jaronski**, Physics. \$208,081. SCHEV flow-through from ED. *K-5 STEM Education Across the Blue Ridge*. The purposes of the proposed project is to strengthen STEM education in grades K-5 in the collaborating school systems, and to develop models of STEM instruction for these grades, which can then be used throughout the state.

Jones, Franklin, Physics. Co-PI: **Walter Jaronski**, Physics. Virginia Department of Education. \$173,195. *Improving Science Education in Elementary Grades in Southside Virginia*. The purpose of this proposed project is to strengthen science education in grades K-5, with a particular emphasis on the transitional grades 4-5, in the collaborating school systems, and to develop models of science instruction for these grades which can then be used throughout the state.

Jones, Joe, Philosophy and Religious Studies. Co-PI: **Sharon Roger-Hepburn**, History. Virginia Foundation for the Humanities. \$10,000. *Civil War Conference*. The purpose of this proposal is to hold a conference at Radford University regarding The Religious Legacy of the American Civil War.

Kennan, William, Academic Affairs. Co-PI: **Joseph Scartelli**, Dean of the College of Visual and Performing Arts. Virginia Department of Education. \$714,504. *2013 (FY2014) Residential Governor's School Cost Proposal*. The purpose of this proposal is to host the Summer Governor's School.

King-Ingham, Alice, Social Work. Virginia Department of Social Services. \$1,534. *VDSS Division of Family Services*. This grant would allow maintenance of salary for coordinator and assistant coordinator positions of the CACNRV.

Kwilecki, Susan, Philosophy and Religious Studies. American Council of Learned Societies. \$65,000. *The Fate of the Dead*. A fellowship to write a book on the view of life after death currently emerging in the United States.

Lane, Kimberly, Chemistry. Co-PI: **Timothy Fuhrer**, Chemistry; **Tara Phelps-Durr**, Biology. Jeffress Memorial Trust. \$99,402. *Using Molecular Modeling Software to Guide Laboratory Science*. The focus of these studies is to computationally analyze three model protein systems by using computer software to predict protein-ligand interactions, protein-protein interactions and enzyme mechanism.

Liptak, John. Center for Experiential Learning and Career Development. University of South Carolina. \$5,000. *Learned Helplessness: A Study of Positive and Negative Job Search Attitudes of College Students in College-To-Career Transition*. This study will identify, quantify, and explore the job search attitudes of college students and determine if students in the college-to-career transition suffer from learned helplessness.

Manizade, Agida, Mathematics and Statistics. College of William and Mary flow through Virginia Department of Education. \$3,240. *Tidewater Team to Improve Middle School Mathematics Instruction*. This project is to work with the College of William and Mary on a collaborative proposal to serve as a member of the advisory board for the project, help develop a math course and recruit teachers for training in mathematics.

Martin, Glen, Philosophy and Religious Studies. Co-PI: **Moira Baker**, English. U.S. Institute of Peace. \$2,000. *Interdisciplinary Minors in Peace Studies and Women's Studies*. This project is to build a program of local speakers (students and professors), films, workshops and discussion events which focus on women's roles in resolving conflicts in situations of war and militarism and in post-conflict situations.

Maxwell, R. Stockton, Geospatial Science. Pennsylvania State University flow through Department of Energy. \$97,796. *Development of Multi-Decadal Records of GPP, ANPP and Disturbance for Earth System Modeling Using Tree Rings*. This project proposes to test the degree to which tree-ring width and C isotopic records of dominate species in a forest stand provide robust, quantitative indicators of forest growth.

Maxwell, R. Stockton, Geospatial Science. Pennsylvania State University flow through NSF. \$35,097. *Collaborate Research Project with Pennsylvania State University*. This project is to help organize and conduct fieldwork and prepare samples for tree-ring analysis.

McClellan, Elizabeth, Geology. U.S. Geological Survey. \$48,711. *Mapping Bimodal Volcanics and Basement-Cover Contacts in the Lower Mount Rogers Formation, Southwestern, Virginia*. This project is to work with two undergraduate students to map bimodal volcanics and basement-cover contact relationships in the lower Mount Rogers formation, Southwestern Virginia.

Metz, Kurt, STEL. Co-PI: **Allyster Blanks**, STEL; **Elizabeth Altieri**, STEL. U.S. Department of Education. \$1,069,544. *Project Slide*. This project proposes a five year project to fully prepare postsecondary scholars for a bachelor's degree with licensure in Hearing Impairment, PreK-12 and a master's degree in Interdisciplinary Studies in Education with licensure in Special Education and General Curriculum (SEGC).

Moore, Sandra, STEL. Co-PI: **Ellen Austin, STEL.** Virginia Department of Education flow through from the ED. \$200,000. *Teacher Preparation and Professional Development Project – Hearing Impairment PreK-12.* This proposal is to provide education and professional development to full-time undergraduate and graduate students as well as practicing teachers, speech pathologists, and other service providers.

Onega, Lisa, Nursing. Virginia Center on Aging. \$39,988. *Bright Light Therapy for Individuals with Dementia.* The aim of this study is to determine if the degree of improvement in depression and agitation scores over the course of eight weeks is significantly greater in persons with dementia receiving bright light exposure than in persons with dementia receiving placebo light exposure.

Pittges, Jeff, Information Technology. IBM. \$10,765. *DIG: Database Instructional Games.* This proposal is to provide funding for students to more effectively learn the area of business intelligence through the Database Instructional Games (DIG). DIG is an online learning environment that motivates students to learn the concepts and principles of database systems, data warehousing, data mining, data analysis, and reporting while acquiring skills through hands-on learning.

Ramsey, Anthony, Nursing. Co-PI: **Sarah Gilbert, Nursing.** Department of Veterans Affairs. \$3,890. *IPA for Sarah Gilbert with the VA Hospital, Salem.* This intergovernmental personnel agreement is for faculty development for the Rural Health Training and Education Program.

Roberts, Ann Mary, STEL. Co-PI: **Jane Swing, STEL.** Virginia Department of Education flow through from ED. \$389,720. *Adult Education State Leadership Program 2012.* A project to work with the Office of Adult Education and Literacy to provide staff development and training to adult education practitioners in Virginia.

Roberts, Ann Mary, STEL. Co-PI: **Jane Swing, STEL.** Virginia Department of Education flow through from ED. \$384,332. *Adult Education State Leadership Program 2013.* A project to work with the Office of Adult Education and Literacy to provide staff development and training to adult education practitioners in Virginia.

Roberts, Ann Mary, STEL. Co-PI: **Jane Swing, STEL.** Virginia Department of Education. \$17,606. *Expanded GED Grant.* A proposal to provide training and instruction for Virginia GED Examiners who oversee the administration of the General Educational Development test.

Roberts, Colleen, Police Department. Virginia Office of Emergency Medical Services flow through from VDH. \$8,172. *Virginia Rescue Squad Assistance Fund.* This proposal is to purchase Kenwood Nect Edge radios, Motorola Minitor V pager, and a Toughbook tablet for the RU EMS department.

Rogers, Orion, Office of the Dean of the College of Science and Technology. Co-PI: **Ann Brown, College of Science and Technology.** Google, Inc., \$25,000. *Summer Bridge Program.* This proposal is to provide 13 young women in high school scholarships to attend RU's Summer Bridge Program to have hands-on learning in information technology, mathematics, science, college preparation and career mentoring.

Rogers, Orion, Office of the Dean of the College of Science and Technology. Invent Now Kids. \$625. *Camp Invention 2013.* This proposal is to host a week-long STEM summer camp for rising first through rising six graders on campus.

Sheehy, Robert, Biology. College of William and Mary flow through from NSF. \$3,600. *RNC-UBE Incubator: An online networking hub for collaboration, discovery, and synthesis in quantitative biology curricula.* This proposal is for a collaborative proposal and will be used to support activities of the network participants, such as participant travel, materials and supplies for the network project.

Shelton, Mythianne, Physics. Monticello College Foundation. \$10,000. *2014 Research Fellowship for Elementary Preservice Teachers*. This proposal seeks funds to assist two female elementary preservice teachers who will be participating in a 4-credit hour Arctic Geophysics Course for Teachers that will incorporate undergraduate student/faculty collaborative research and education outreach.

Shoemaker, Patricia, Office of the Dean of the College of Education and Human Development. Advance Education, Inc. \$59,903. *Advanced Education, Inc.: Virginia Southern Association of Colleges and Schools Council for Accreditation and School Improvement (SACS CASI)*. This proposal is for RU to house and act as fiscal agent for the Advance Education, Inc.: Virginia Southern Association of Colleges and Schools Council for Accreditation and School Improvement.

Sigmon, Neil, Mathematics & Statistics. Toyota USA Foundation. \$199,292. *Integrating Cryptology into the High School Curriculum*. This proposal is to integrate a course involving cryptology, the science of disguising information, as a regular part of curriculum offerings taught by the Virginia Governor's schools.

Small, Christine, Biology. USDA Forest Service Southern Research Station. \$50,000. *Experimental Harvest & Monitoring of Select Appalachian Non-Timber Forest Products*. This project will use our established protocols to study harvest impacts on other Appalachian species. Specific goals are to: 1) assess impacts of experimental harvest on native medicinal forest species; 2) develop field methods for efficient and reliable inventory of these products; and 3) evaluate post-harvest recovery.

Swing, Jane, STEL: Co-PI: **Ann Mary Roberts**, STEL. Virginia Department of Correctional Education. \$12,000. *Partnership with DOC for VAILL Participants*. This proposal is for funds to support 30 slots for the Division of Education personnel to fully participate in the Virginia Institute for Lifelong Learning at Radford University Campus.

Trageser, Susan, Student Affairs. National Social Norms Institute flow through Anheuser-Busch. \$7,152. *"RU Normal" Social Norming Campaign*. This proposal is to institute a campaign to change the culture of drinking on Radford University campus through a social norming campaign.

Uppuluri, Premchand, Information Technology. Co-PI: **Joseph Chase**, Information Technology; **Jeffrey Pittges**, Information Technology. National Security Agency. \$49,600. *Scare and Prepare: Increasing Awareness, Safety and Passion for Cyber-Security*. This project is to make high school students security conscious cyber-citizens and interested in pursuing computer science as a major at the college level. This will be accomplished by providing educational material and training to high-school teachers in computer security programs.

Uppuluri, Premchand, Information Technology. Co-PI: **Jean Misteale**, Mathematics and Statistics; **Ian Barland**, Information Technology; **Orion Rogers**, Office of the Dean of the College of Science and Technology. National Science Foundation. \$601,568. *Preparing the Next Generation of Professionals in Science, Technology, and Mathematics*. This proposal is to recruit, retain, prepare, and give scholarships to students in the STEM disciplines.

Wojdak, Jeremy, Biology. National Science Foundation. \$7,500. *Collaborative Research: Community composition and disease outcomes in a multihost-parasite system*. This proposal proposes to experimentally explore how community composition regulates infection dynamics in a complex host-parasite system composed of two snail species (*Planorbella trivolvis*, *Physa acuta*), a larval amphibian species (*Rana clamitans*), and the trematode parasite, *Echinostoma trivolvis*.

Yang, Wei Chi, Mathematics and Statistics. Co-PI: **Anthony Dove**, Mathematics and Statistics. Texas State University flow through National Science Foundation. \$938,915. *Dynamic Geometry in Rural High School Classrooms*. This is a large scale project with Texas State University and Ohio State University to investigate the effectiveness of the dynamic geometry approach on high school students' geometry learning in several states across the country.

GRANTS AWARDED

Altieri, Elizabeth, STEL. Co-PI: **Kenna Colley**, STEL. George Mason University flow through from VDOE and ED. **\$59,952**. *Severe Disabilities Grant*. Funding to teach one to two courses as part of the Virginia Department of Education Statewide Training Consortium.

Altieri, Elizabeth, STEL. Co-PI: **Kenna Colley**, STEL. George Mason University flow through from VDOE and ED. **\$29,347**. *Visual Impairment Grant 2012-2013*. Grant funds are to pay for partial tuition support for students, and to teach a course as part of the Virginia Department of Education Statewide Training Consortium.

Boyd, Clifford, Forensic Science Institute. Co-PI: **Donna Boyd**, Forensic Science Institute. Chesterfield County. **\$6,663**. *Skeletal Analysis of Individuals from Unmarked Cemetery at Old Cloverleaf Mall*. This grant is to describes the goals, methods, and outcomes for the skeletal analysis of six unidentified individuals from an unmarked 19th Century cemetery discovered beneath a parking lot at the former location of the Old Cloverleaf Mall, Richmond, Virginia.

Burggraf, Virginia, School of Nursing. Health Resources and Services Administration flow-through from DHHS. **\$314,278**. *Advanced Education Nursing Traineeship HRSA 12-062*. This grant is to increase the primary health care workforce by approximately 32 in the next four years; develop partnerships with the Veteran's Administration Nursing Academy and the Helping

Veterans Transition to Careers in Nursing; develop recruitment materials for dissemination to underserved population groups; publish outcomes, and present at rural and national professional provider organizations.

Burggraf, Virginia, School of Nursing. Health Resources and Services Administration. **\$298,005**. *Advanced Education Nursing Traineeship HRSA 12-062*. This continuation grant is to increase the primary health care workforce (FNP) by approximately 32 in the next four years by developing partnerships with the Veterans Administration Nursing Academy and the Helping Veterans Transition to Careers in Nursing.

Byrd, Anthony, Business Assistance Center. George Mason University flow through from SBDC and SBA. **\$407,498**. *2013 Small Business Development Center*. Grant funds are used to manage the 2013 Small Business Development Center programs in Southwest Virginia.

Carter, Kimberly, Nursing. Carilion Health System. **\$86,520**. *BS & MS Degree in Nursing 12-13*. This award will support the provision of upper-division and graduate nursing courses, including those at the Roanoke Higher Education Center and in online and other alternative educational formats, as part of the Bachelor of Science Degree in Nursing and Graduate Programs in Nursing, which are offered by the University.

Carter, Kimberly, Nursing. Lewis-Gale Health System of HCA VA. **\$3,003**. *Advancing Evidence-Based Practice and Research at Lewis Gale Health System*. A grant for a collaborative partnership to increase the BSN workforce and advance the current workforce in supporting Magnet-level evidence based practice and research.

Colley, Kenna, STEL. Co-PI: **Ginni Bussey**, TTAC; **Leslie McArthur-Fox**, TTAC. Virginia Department of Education flow through from ED. **\$1,011,488**. *Training and Technical Assistance Center (TTAC)*. This grant provides funding for the Training and Technical Assistance Center which provides professional development and support design to assist schools in addressing accountability and improvement goals for students with disabilities.

Ely, Linda, Nursing. Chang-Gung University of Science & Technology. **\$6,000**. *Partnership with Chang-Gung University of Science & Technology*. This grant helps fund a cross-cultural exchange between American Students and Taiwanese students in the study of mental health care systems and the role of the psychiatric nurses.

Ely, Linda, Nursing. Chang-Gung University of Science & Technology. **\$2,160**. *Partnership with Chang-Gung University of Science & Technology*. Incremental funding was received to cover transportation costs for the cross-cultural exchange between American Students and Taiwanese students in the study of mental care systems and the role of psychiatric nurses.

Francl, Karen, Biology. Radford Army Ammunition Plant. **\$10,977**. *Biological Surveys of Radford Army Ammunition Plant*. This grant is to identify species and locations of amphibians, reptiles, birds and small mammals at Radford Army Ammunition Plant and provide a report with species listed and sample point locations with GPS coordinates.

Francl, Karen, Biology. Virginia Department of Game and Inland Fisheries. **\$25,000**. *White Nose Surveillance and Monitoring*. This grant will fund surveys to assess the status of two bat species currently being considered for “Endangered Species” status through the Endangered Species Act.

Fullmer, Elise, School of Social Work. Virginia Department of Social Services flow through from DHHS. **\$198,842**. *Community Resource Adoptive Foster Family Training (CRAFFT) 2013-2014*. This award is for another year of funding to continue to have a Community Resource Adoptive Foster Family Training to help families create and sustain a family/community environment that strengthens family relationships

Hoover, Kathryn, STEL. Virginia Department of Education flow through from ED. **\$75,000**. *Virginia Consortium for Teacher Preparation in Early Childhood Special Education*. This grant is to address the critical shortage of Virginia licensed teachers who carry endorsement in Early Childhood Special Education.

Hoover, Kathryn, STEL. Co-PI: **Kathleen Pierson**, STEL. Virginia Department of Behavioral Health and Developmental Services flow through ED. **\$20,029**. *ITC NRV 2012-2013 – State Funds*. This is a supplement to provide early intervention services to eligible children birth to 2 years of age or their 3rd birthday.

Hoover, Kathryn, STEL. Co-PI: **Pierson, Kathleen**, STEL. Virginia Department of Behavioral Health and Developmental Services. **\$196,993**. *Infant & Toddler Connection of the NRV 2013-2014 State Funds*. State funding is to provide early intervention services to eligible children birth to 2 years or 3rd birthday.

Hoover, Kathryn, STEL. Co-PI: **Pierson, Kathleen**, STEL. Virginia Department of Behavioral Health and Developmental Services flow through from ED. **\$116,158**. *Infant & Toddler Connection of the NRV 2013-2014 Federal Funds*. Federal funding is to provide early intervention services to eligible children birth to 2 years or 3rd birthday.

Jacobsen, Laura, STEL. Co-PI: **Manizade, Agida**, Mathematics and Statistics. Virginia Department of Education. **\$250,000**. *Secondary Mathematics Professional Development Center*. This grant's long-term effort includes preparation for selected secondary mathematics teachers to serve as Lead Teachers guiding innovation in mathematics content and pedagogy while increasing students' mathematics achievement and interest in STEM fields.

Kennan, William, Academic Affairs. Co-PI: **Joseph Scartelli**, Dean of the College of Visual and Performing Arts. Virginia Department of Education. **\$714,504**. *2013 (FY 2014) Residential Governor's School Cost Proposal*. Funding to host FY2012 Summer Governor's School.

King-Ingham, Alice, Social Work. Co-PI: **Rhonda Seltz**, Social Work. Virginia Health Care Foundation. **\$20,853**. *CHIPRA FAMIS Outreach*. This project is for funding to expand FAMIS/Medicaid outreach and enrollment assistance efforts in the City of Roanoke.

King-Ingham, Alice, Social Work. Virginia Department of Social Services. **\$1,534**. *VDSS CAC CAC Supplement*. This grant is to have a National Child Advocacy Center training to improve team function.

Lewis, Veronica, Student Support Services. U.S. Department of Education. **\$292,343**. *Student Support Services*. The program is designed to identify qualified individuals from disadvantaged backgrounds and to prepare them to succeed in a program of postsecondary education.

Martin, Glen, Philosophy and Religious Studies. Co-PI: **Moira Baker**, English. U.S. Institute of Peace. **\$2,000**. *Interdisciplinary Minors in Peace Studies and Women's Studies*. This grant is to build a program of local speakers (students and professors), films, workshops and discussion events which focus on women's roles in resolving conflicts in situations of war and militarism and in post-conflict situations.

Maxwell, R Stockton, Geospatial Science. Pennsylvania State University flow through from NSF. **\$35,097** *Collaborate Research Project with Penn State*. An NSF grant to organize, conduct fieldwork and prepare samples of tree-ring analysis in the summer of 2013.

McClellan, Elizabeth, Geology. U.S. Geological Survey (Educational Component of the National Cooperative Geologic Mapping Program). **\$14,199**. *Mapping Bimodal Volcanic and Basement-Cover Contacts in the Lower Mount Rogers Formation, Southwestern Virginia*. This grant will fund two undergraduate students to map bimodal volcanic and basement-cover contact relationships in the lower Mount Rogers formation, Southwestern Virginia.

Moore, Sandra, STEL. Co-PI: **Ellen Austin**, STEL. Virginia Department of Education flow through from ED. **\$200,000**. *Teacher Preparation and Professional Development Project – Hearing Impairment PreK-12*. This grant is for faculty and staff to provide full-time undergraduate and graduate programs leading to the licensure in Hearing Impairments, PreK-12.

Pittges, Jeff, Information Technology. IBM. **\$10,766**. *DIG: Database Instructional Games*. This grant provides funding for students to more effectively learn the area of business intelligence through the Database Instructional Games (DIG). DIG is an online learning environment that motivates students to learn the concepts and principles of database systems, data warehousing, data mining, data analysis, and reporting while acquiring skills through hands-on learning.

Ramsey, Anthony, Nursing. Co-PI: **Sarah Gilbert**, Nursing. Department of Veterans Affairs. **\$3,890**. *IPA for Sarah Gilbert with the VA Hospital, Salem*. This intergovernmental personnel agreement is for faculty development for the Rural Health Training and Education Program.

Roberts, Ann Mary, STEL. Co-PI: **Jane Swing**, STEL. Virginia Department of Education flow through ED. **\$384,322**. *Adult Education State Leadership Program*. The Office of Adult Education and Literacy at Radford will work with the Office of Adult Education and Literacy in the Virginia Department of Education to provide staff development and training to adult education practitioners in Virginia.

Roberts, Ann Mary, STEL. Co-PI: **Jane Swing**, STEL. Virginia Department of Education. **\$17,606**. *Expanded GED Grant*. These funds will be utilized to provide training and instruction for Virginia GED Examiners who oversee the administration of the General Educational Development test.

Roberts, Ann Mary, STEL. Co-PI: **Jane Swing**, STEL. Virginia Department of Education flow-through from U.S. Department of Education. **\$382,806**. *Adult Education State Leadership Program*. The Office of Adult Education and Literacy at Radford University will work with the Office of Adult Education and Literacy in the Virginia Department of Education to provide staff development and training to adult education practitioners in Virginia.

Shoemaker, Patricia, Office of the Dean of the College of Education and Human Development. Advance Education, Inc. **\$59,903**. *Advance Education, Inc.: Virginia Southern Association of Colleges and Schools Council for Accreditation and School Improvement*. This funding is for RU to house and act as fiscal agent for the Advance Education, Inc.: Virginia Southern Association of Colleges and Schools Council for Accreditation and School Improvement.

Small, Christine, Biology. USDA Forest Service Southern Research Station. **\$50,000**. *Experimental Harvest & Monitoring of Select Appalachian Non-Timber Forest Products*. This research is to study harvest impacts on other Appalachian species. Specific goals are to 1) assess impacts of experimental harvest on native medicinal forest species; 2) develop field methods for efficient and reliable inventory of these products; and 3) evaluate post-harvest recovery.

Trageser, Susan, Student Affairs. National Social Norms Institute. **\$7,535**. *"RU Normal" Social Norming Campaign*. These funds will help institute a campaign to change the culture of drinking on Radford University campus through a social norming campaign.

Uppuluri, Premchand, Information Technology. Co-PI: **Joseph Chase**, Information Technology and **Jeffrey Pittges**, Information Technology. National Security Agency flow through from the Department of Defense. **\$36,000**. *Scare and Prepare: Increasing Awareness, Safety and Passion for Cyber-Security*. This award is to make high school students security conscious cyber-citizens and interested in pursuing computer science as a major at the college level. This will be accomplished by providing educational material and training to high-school teachers in computer security programs.

Wojdak, Jeremy, Biology. Virginia Tech flow through from National Science Foundation. **\$6,300.**

Collaborative Research: Community composition and disease outcomes in a multihost-parasite system. This grant supplements a collaborative project with Virginia Tech to experimentally investigate the role of species diversity in modulating disease risk in a complex host-parasite system composed of snails, amphibians, and a trematode parasite.

Webster, Francis, Chemistry. Environmental Protection Agency. **\$14,917.** *Lessons from Nature: Synthetic Humic Acid Materials for Improved Water Purification.* This project will focus on the development of an inexpensive, multi-functional adsorbent material that will improve existing sand filtration technology to better remove a wide range of water contaminants, including arsenic, other heavy metals, and organic contaminants.

Wojdak, Jeremy, Biology. Virginia Tech flow through from National Science Foundation. **\$6,300.**

Collaborative Research: Community composition and disease outcomes in a multihost-parasite system. This grant supplements a collaborative project with Virginia Tech to experimentally investigate the role of species diversity in modulating disease risk in a complex host-parasite system composed of snails, amphibians, and a trematode parasite.

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